

INC FILE CORP

(4)

500 CONTRACTORS

**RECEIVING THE LARGEST DOLLAR VOLUME
OF PRIME CONTRACT AWARDS
FOR RDT&E**

Fiscal Year 1988

AD-A207 967



DTIC
ELECTED
MAY 09 1989
S H D
C/S

DISPOSITION STATEMENT A

Approved for public release
Distribution Unlimited

89 3 32 030

500 CONTRACTORS RECEIVING THE LARGEST DOLLAR VOLUME OF PRIME CONTRACT AWARDS FOR RESEARCH, DEVELOPMENT, TEST, AND EVALUATION

Fiscal Year 1988

Department of Defense
Washington Headquarters Services
Directorate for Information
Operations and Reports

~~For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402~~
DTIC/NTIS identification number for this publication is DIOR/P02-88

FOREWORD

500 Contractors Receiving the Largest Dollar Volume of Prime Contract Awards for Research, Development, Test and Evaluation (RDT&E) is published annually. This report provides information on the 500 contractors that received the largest dollar volume in Department of Defense (DoD) prime contract awards over \$25,000 for RDT&E. These data are presented in five tables showing:

1. An alphabetical listing of the top 500 companies, with rank;
2. The ranking and net value of awards to business firms operating in the United States;
3. The ranking and net value of awards to educational and other nonprofit institutions operating in the United States;
4. The ranking and net value of awards to foreign contractors; and
5. The ranking and net value of awards to U.S. government agencies.

Accession For	
NTIS GRA&I	<input checked="" type="checkbox"/>
DTIC TAB	<input type="checkbox"/>
Unclassified	<input type="checkbox"/>
Justification	
By	
Distribution/	
Availability Codes	
Dist	Avail and/or Special
A-1	



TABLE OF CONTENTS

<i>Introduction</i>	1
Tables:	
<i>Table 1. Alphabetical Listing of the Top 500 DoD Prime Contractors for Research, Development, Test, and Evaluation Work: FY 1988</i>	7
<i>Table 2. Net Value of DoD Prime Contract Awards Over \$25,000 for RDT&E to Business Firms: FY 1988</i>	13
<i>Table 3. Net Value of DoD Prime Contract Awards Over \$25,000 for RDT&E to Educational and Non-profit Institutions: FY 1988</i>	29
<i>Table 4. Net Value of DoD Prime Contract Awards Over \$25,000 for RDT&E to Foreign Contractors: FY 1988</i>	33
<i>Table 5. Net Value of DoD Prime Contract Awards Over \$25,000 for RDT&E to U.S. Government Agencies: FY 1988</i>	35

INTRODUCTION

This report presents summary data on the 500 prime contractors receiving the largest dollar volume in Department of Defense (DoD) awards over \$25,000 for research, development, test, and evaluation (RDT&E) work during Fiscal Year (FY) 1988. RDT&E work can include research, exploratory development, advanced development, engineering development, operational systems development, or management and support services. (Full definitions for each of these categories are provided in DFARS 235.001.)

Table 1 (page 7) lists the 500 contractors in alphabetical order, shows the ranking for each, and shows how each has been categorized for reporting purposes. The categories are business firm (B), foreign contractor (F), and nonprofit institution (N). Table 2 (page 13) shows the net value of awards to U.S. business firms by rank. Those firms which qualify as small businesses are further identified by an "S". The net value of awards to each of the firm's reported locations is also provided. Tables 3, 4, and 5 (pages 29, 33, and 35, respectively) provide the net value of awards to U.S. educational and other nonprofit institutions, foreign contractors, and U.S. government agencies. (While awards to U.S. government agencies are listed separately in Table 5, these agencies are categorized as nonprofit institutions in Table 1.) As in Table 2, contractors in Tables 3 through 5 are shown by rank, with their total awards indicated by an "*". The net value of awards to each of the contractor's reported locations are also shown for these tables.

NOTES ON COVERAGE

The dollar amounts shown here include prime contract awards over \$25,000 for RDT&E work only. Data on awards for other services, such as training, and on any supplies furnished by the contractors in support of research being done are excluded. Contract awards for civil functions have been included in these data. Civil functions encompass planning, programming, designing, constructing, and operating Federal water resource projects for navigation, flood control, hydroelectric power production, water supply, and other related activities.

The locations shown in the tables are the places where the work was to be performed. Normally, this is a facility of the concern awarded the contract. However, if the work was scheduled to be performed at a Defense facility, such as an Air Force base, the location shown may be that of the Defense facility rather than the contractor.

DATA RELATING TO COMPANIES IN THIS PUBLICATION ARE SUBJECT TO THE ACCURACY OF THE DUN & BRADSTREET CORPORATION'S DATA UNIVERSAL NUMBERING SYSTEM AND ITS ABILITY TO DESCRIBE RELATIONSHIPS OF COMPANIES.

HIGHLIGHTS

The following table shows the net value and percent distribution of all RDT&E awards, RDT&E awards to the top 500 companies, and all other RDT&E awards for FY 1988.

Department of Defense Prime Contract Awards Over \$25,000
Fiscal Year 1988

TYPE OF CONTRACTOR	TOTAL RDT&E			TOP 500 RDT&E			ALL OTHER RDT&E		
	NUMBER	% OF AWARDS (\$000)	TOTAL \$	NUMBER	% OF AWARDS (\$000)	TOTAL \$	NUMBER	% OF AWARDS (\$000)	% OF TOTAL \$
RDT&E - TOTAL	2,597	22,542,526	100	500	21,877,498	100	2,097	665,028	100
BUSINESS FIRMS	2,160	19,581,456	87	377	19,026,713	87	1,783	554,743	83
Small	1,646	1,413,769	6	174	980,269	4	1,472	433,500	65
Large	514	18,167,687	81	203	18,046,444	82	311	121,243	18
EDUCATIONAL & NONPROFIT	308	2,794,155	12	103	2,709,630	12	205	84,525	13
Educational	205	1,519,897	7	74	1,457,486	7	131	62,411	10
Other Nonprofit	103	1,274,258	6	29	1,252,144	6	74	22,114	3
U.S. GOVERNMENT AGENCIES	8	13,049	*	3	12,142	*	5	907	*
FOREIGN	121	153,866	1	17	129,013	1	104	24,853	4

*LESS THAN 0.5 PERCENT

NOTE: TOTALS MAY NOT ADD DUE TO ROUNDING

Based on the percentage of total awards, the distribution of FY 1988 awards varies moderately from that in FY 1987. In FY 1988, the top 500 contractors included 377 U.S. business firms (174 of which were small businesses); 103 educational and nonprofit institutions; 3 U.S. government agencies; and 17 foreign contractors.

In FY 1987 the top 500 consisted of 380 business firms (178 were small businesses); 100 educational and nonprofit institutions; 3 U.S. government agencies; and 17 foreign contractors.

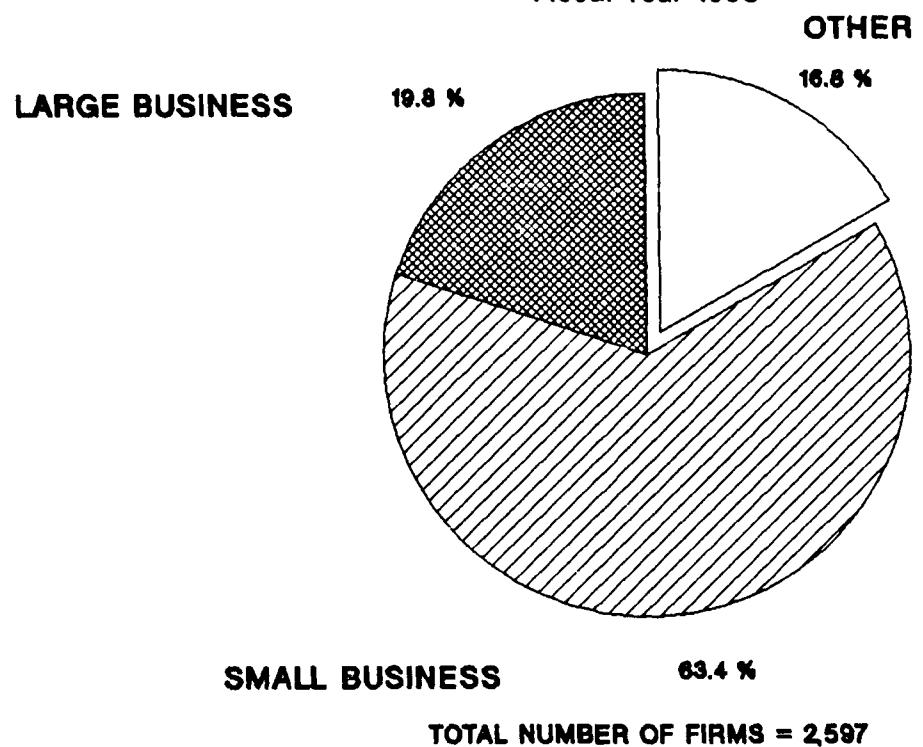
The top 500 RDT&E contractors received awards totaling \$21,877 million in FY 1988, compared to \$21,215 million in FY 1987, an increase of \$662 million or 3.1 percent. The \$21,877 million represents 97.0 percent of the \$22,543 million total prime contract awards over \$25,000 for RDT&E work in FY 1988.

In addition to the top 500 contractors, there were 2,097 other contractors for whom RDT&E procurement actions over \$25,000 were reported, for a total of 2,597 contractors in FY 1988. In FY 1987, the total number of contractors was 2,583.

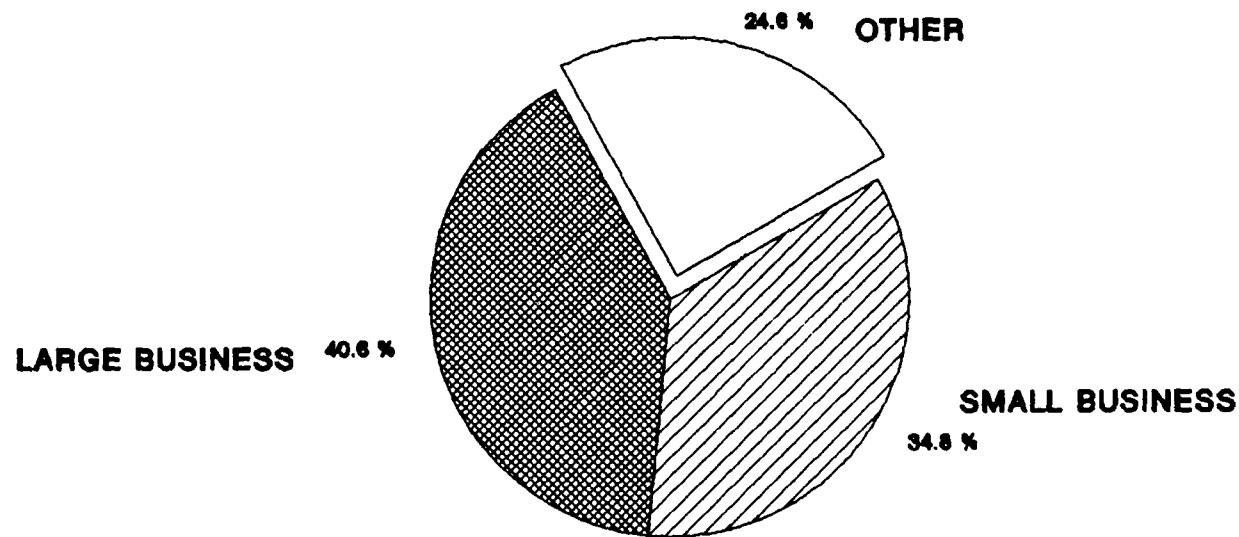
Of the 37 contractors with RDT&E awards of \$100 million or more in FY 1988, 32 were business firms and 5 were educational and other nonprofit institutions. These 37 contractors had a total of \$16,512 million in RDT&E awards. In FY 1987, there were 37 contractors who reached the \$100 million plateau, with awards totaling \$16,043 million. Of these 37 fiscal year 1987 contractors, 32 were business firms and 5 were educational and other nonprofit institutions. The amount of awards for this \$100 million group increased by \$469 million or 2.9 percent between FY 1987 and 1988.

Breakout of the type of contractors receiving RDT&E awards are shown in the charts on the next page. Both of these charts show the number of firms with their associated percentages, and not the percentage of dollars.

TOTAL CONTRACTORS RECEIVING RDT&E DOLLARS
Fiscal Year 1988



TOP 500 CONTRACTORS - RDT&E
Fiscal Year 1988

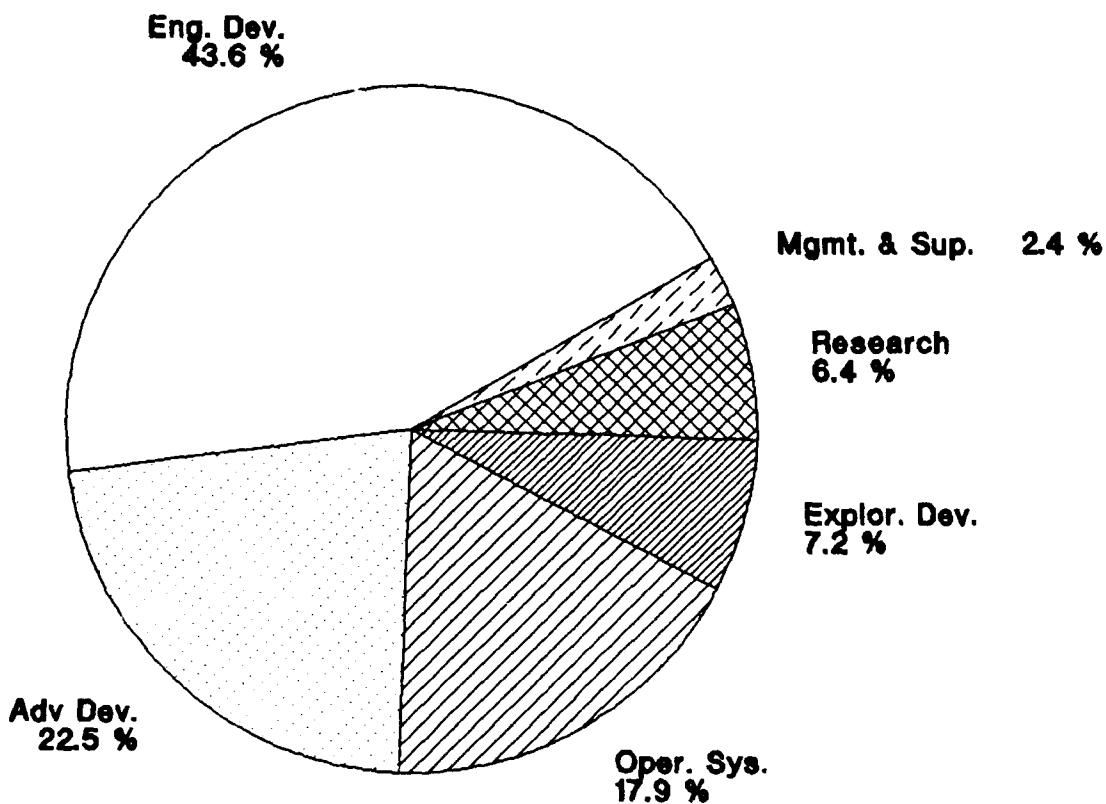


The following table shows the type of RDT&E work the contractors were engaged in and the net value and percent distribution of all awards for each of these types in FY 1988. Engineering development accounted for the majority (43.6 percent) of RDT&E awards, followed by advanced development (22.5 percent).

TYPE	AWARDS (\$000)	PERCENT OF TOTAL
RDT&E - TOTAL	<u>\$22,542,526</u>	<u>100.0</u>
Engineering Development	9,832,514	43.6
Advanced Development	5,072,901	22.5
Operational Systems	4,032,009	17.9
Exploratory Development	1,623,006	7.2
Research	1,443,987	6.4
Management and Support	538,109	2.4

DOLLAR AWARDS BY TYPE OF RDT&E WORK

Fiscal Year 1988



The last table shows the net value and percent distribution of all RDT&E awards by type of program. Within the RDT&E contracts, the largest volume of awards was for the research, development, test, or evaluation of missile & space systems and aircraft. In FY 1988, a combined total of \$12,855 million or 57.0 percent of all RDT&E awards over \$25,000 was for work connected with these programs.

PROGRAM	AWARDS (\$000)	PERCENT OF TOTAL
RDT&E - TOTAL	\$22,542,526	100.0
Missile & Space Systems	7,799,839	34.6
Aircraft	5,055,114	22.4
Electronics & Communication		
Equipment	3,853,812	17.1
Services	3,464,886	15.4
Ships	523,797	2.3
Weapons	512,706	2.3
Ammunition	478,571	2.1
Tank-Automotive	198,309	0.9
All Other	655,492	2.9

RDT&E DOLLARS AWARDS BY TYPE OF PROGRAM

Fiscal Year 1988

**MSL & SPACE
34.6 %**

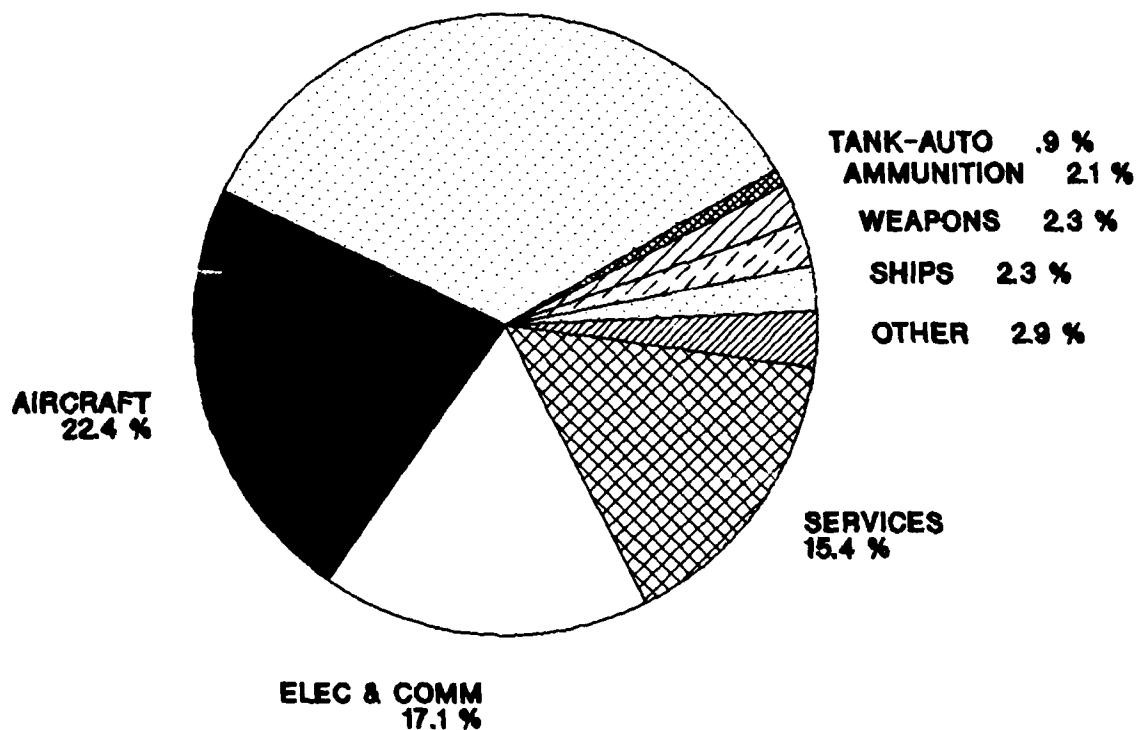


Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors for Research, Development, Test, and Evaluation Work: FY 1988

RANK	*	CONTRACTOR	RANK	*	CONTRACTOR
111	B	A A I CORPORATION	310	N	AUBURN UNIVERSITY
25	B	A T & T TECHNOLOGIES INC	273	B	AUTOMATED SCIENCES GROUP INC
121	B	ACUREX CORPORATION	371	B	AUTOMETRIC INC
175	B	ADVANCED DECISION SYSTEMS	43	B	AVCO CORPORATION
429	B	ADVANCED DIGITAL SYSTEM INC	51	B	AVCO RESEARCH LABORATORY INC
444	B	ADVANCED RES & APPLICATIONS	339	B	AYDIN CORPORATION
414	B	ADVANCED SCIENCES INC	437	B	B-K DYNAMICS INC
228	B	ADVANCED TECHNOLOGY INC	62	B	BALL CORPORATION
358	B	AEL INDUSTRIES INC	97	N	BAITELLE MEMORIAL INSTITUTE
425	B	AERODYNE RESEARCH INC	50	B	BDM CORPORATION
30	B	AEROJET ELECTROSYSTEMS CO	170	B	BDM MANAGEMENT SERVICES CO
42	B	AEROJET GENERAL CORPORATION	257	B	BECHTEL NATIONAL, INC
33	B	AEROJET SOLID PROPULSION CO	12	B	BELL BOEING JV
423	B	AEROLIFT INC	77	B	BELL HELICOPTER TEXTRON INC
214	B	AEROMET INC	298	B	BERKELEY RESEARCH ASSOCIATES
16	N	AEROSPACE CORPORATION	3	B	BOEING COMPANY THE
497	B	AHNTech INC	297	F	CCFORS A B
364	B	ALCOA DEFENSE SYSTEMS INC	55	B	BOLI BERANEK & NEUMAN INC
45	B	ALLIED SIGNAL AEROSPACE CO	86	B	BOOZ ALLEN & HAMILTON INC
267	B	ALLIED SIGNAL INC	264	N	BOSTON UNIVERSITY TRUSTEES OF
315	B	ALPHATECH INC	231	N	BROWN UNIVERSITY
347	B	AM GENERAL CORPORATION	293	B	BRUNSWICK CDC
428	B	AMERICAN OPTICAL CORPORATION	203	B	BRUNSWICK CORPORATION
489	N	AMERICAN SOC FOR ENGRG EDUCN	499	B	C V D INCORPORATED
123	B	AMERICAN SYSTEMS CORPORATION	394	B	CACI INTERNATIONAL INC
320	B	ANALYSIS & COMPUTER SYSTEMS	177	N	CALIFORNIA INST OF TECHNOLOGY
140	B	ANALYSIS & TECHNOLOGY INC	199	B	CALIFORNIA RES & TECHNOLOGY
71	B	ANALYTIC SCIENCES CORP	48	B	CALSPAN CORPORATION
88	N	ANALYTIC SERVICES INC	234	B	CAMPBELL ENGINEERING INC
202	B	ANALYTICAL SYSTEMS ENGRG CORP	150	F	CANADIAN COMMERCIAL CORPORATN
190	B	ANALYTICS INCORPORATED	471	F	CANADIAN MARCONI COMPANY
261	F	ANDREW ANTENNA GOVERNMENT PRO	58	N	CARNEGIE-MELLON UNIVERSITY
323	B	ANDRULIS RESEARCH CORP	393	B	CAS INC
314	B	APPLIED RESEARCH ASSOC INC	365	N	CASE WESTERN RESERVE UNIV
146	B	APPLIED RESEARCH INC	484	N	CATHOLIC UNIVERSITY OF AMERICA
290	B	APPLIED TECHNOLOGY ASSOCIATES	105	B	CBI NA-CON INC
284	B	APTEK INC	363	B	CELCO INDUSTRIES INC
100	B	AQUA-CHEM INC	165	B	CHAMBERLAIN MANUFACTURING CORP
343	B	AQUIDNECK SYSTEMS INTL	296	B	CINCINNATI ELECTRONICS CORP
270	B	ARES INC	369	N	CLEMSON UNIVERSITY
426	B	ARETE ASSOCIATES	337	B	COLEMAN RESEARCH CORPORATION
479	B	ARGOSYSTEMS INC	36	B	COLLINS INTERNATIONAL SV CO
262	B	ARINC RESEARCH CORPORATION	305	N	COLORADO STATE UNIVERSITY
408	N	ARIZONA STATE UNIVERSITY	94	B	COLSA INC
455	B	ARMAMENT SYSTEMS INC	167	N	COLUMBIA UNIVERSITY
301	B	ARMORED VEHICLE TECHNOLOGIES ASSOC	162	B	COMARCO INC
433	B	ARRAL INDUSTRIES INC	135	B	COMBUSTION ENGINEERING INC
154	B	ASSURANCE TECHNOLOGY CORP	462	B	COMMAND CONTRL COMMUNICATIONS
381	B	ATLANTIC AEROSPACE ELECTRONICS	287	B	COMPTEK RESEARCH INC
99	B	ATLANTIC RESEARCH CORPORATION	404	B	COMPUTER RESOURCE ENGRG ASSOC

* B = Business Firm

F = Foreign Contractor

N = Nonprofit Institution

Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors for Research, Development, Test, and Evaluation Work: FY 1988

RANK	*	CONTRACTOR	RANK	*	CONTRACTOR
44	B	COMPUTER SCIENCES CORPORATION	395	B	EPOCH ENGINEERING INC
82	B	CONTEL PAGE SYSTEMS INC	156	B	ESL INCORPORATED
490	F	CONTRAVES ITALIANA SPA	481	B	ESSEX CORPORATION
113	B	CONTROL DATA CORPORATION	307	B	EVALUATION RESEARCH CORP
136	N	CORNELL UNIVERSITY	216	B	FAIRCHILD INDUSTRIES INC
445	B	CORTANA CORPORATION	253	B	FAIRCHILD WESTON SYSTEMS INC
448	B	CORVUS SYSTEMS INCORPORATED	420	B	FEMMELAMP INC
316	F	COSYDE GIE	402	B	FIRER MATERIALS INC
365	B	CTA INCORPORATED	376	B	FLIBERTEK INC
438	B	CUBIC CORPORATION	40	B	FMIC CORPORATION
183	B	CUMMINS ENGINE COMPANY INC	27	B	FORD AEROSPACE
436	N	DARTMOUTH COLLEGE	174	B	FOSTER MILLER INC
178	B	DBA SYSTEMS INC	91	B	FOUNDATION HEALTH CORPORATION
292	B	DCS CORPORATION	294	B	G & F CO
410	B	DECISION-SCIENCE APPLICATIONS	179	B	GA TECHNOLOGIES INC
157	B	DEERE JOHN TECHNOLOGIES INTL	413	B	GENERAL APPLIED SCIENCE
217	B	DEFENSE SYSTEMS INC	13	B	GENERAL DYNAMICS CORPORATION
336	B	DEFLTA RESEARCH INC	242	B	GENERAL DYNAMICS WESTINGHSE JV
329	B	DODS AVIATION INC	7	B	GENERAL ELECTRIC COMPANY
412	B	DOW CHEMICAL COMPANY THE	453	N	GENERAL HOSPITAL CORPORATION
325	B	DUC CORNING CORPORATION	103	B	GENERAL MOTORS CORPORATION
28	N	DRAFTER CHARLES STARK LAB INC	76	B	GENERAL RESEARCH CORPORATION
370	N	DUKE UNIVERSITY	486	B	GENTEX CORPORATION
469	B	DURACYNE INC	85	B	GEO-CENTERS INC
377	B	DYNAMAC INTERNATIONAL INC	133	N	GEORGE WASHINGTON UNIV THE
272	B	DYNAMICS RESEARCH CORPORATION	69	N	GEORGIA INSTITUTE TECHNOLOGY
151	B	DYNOCORP	383	B	GIORDANO ASSOCIATES INC
236	B	DYNETICS INC	130	B	GLOBAL ASSOCIATES JV
156	B	E C CORPORATION	291	B	GOULD INC
302	B	E G & G INC	4	B	GRUMMAN AEROSPACE CORPORATION
128	B	E G G WASH ANALYTICAL SVCS CTR	102	B	GTE GOVERNMENT SYSTEMS INC
400	B	E I C LABORATORY INC	59	B	GTE PRODUCTS CORP DEL CORP
73	B	E SYSTEMS INC	483	B	H R TEXIRON INC
194	B	EAGLE TECHNOLOGY INC	46	B	HARRIS CORPORATION
458	B	EAGLE-PICHER INDUSTRIES INC	160	B	HARRIS-MAGNAVOX SYSTEMS CO(JV)
33	B	EARTH TECHNOLOGY CORPORATION	74	B	HARSCO CORPORATION
341	B	EARLMAN & LAK COMPANY	246	N	HARVARD UNIVERSITY
72	B	EATON CORPORATION	132	B	HAZELTINE CORPORATION
263	B	EFASCO SERVICES INC	347	F	HECKLER & KOCH INC
283	B	ECG INTERNATIONAL CORP	31	B	HERCULES INCORPORATED
456	B	ECO CORPORATION	275	B	HILTON SYSTEMS INC
419	B	ELCTRONIC ASSOCIATES INC	20	B	HONEYWELL INC
230	B	ELECTRONIC DECISIONS INC	101	N	HUDSON INSTITUTE INC
214	B	ELECTRONIC WARFARE ASSOCIATES	374	B	HUGHES ACFT & TEXAS INSTR JV
147	B	ELETROSPACE SYSTEMS INC	11	B	HUGHES AIRCRAFT COMPANY
104	B	EMERSON ELECTRIC CO	405	B	HUGHES ASSOCIATES INC
171	B	ENTCOP CORPORATION	415	B	HYPRES INC
146	B	ENGINEERING & ECONOMICS RES	52	N	I & I RESEARCH INSTITUTE
379	B	ENGINEERING & PROF SVCS	269	B	I & I INDUSTRIES DELAWARE
229	N	ENVIRON INST OF MICHIGAN	451	B	INET INC

* B = Business Firm

F = Foreign Contractor

N = Nonprofit Institution

Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors for Research, Development, Test, and Evaluation Work: FY 1988

RANK	*	CONTRACTOR	RANK	*	CONTRACTOR
352	B	INDUSTRIAL DATA LINK CORP	118	B	MAGNAVOX GOVT & INDUST ELECTR
396	B	INFORMATION SYSTEMS NETWORKS CORP	243	B	MANTECH INTERNATIONAL CORP
110	N	INSTITUTE FOR DEF ANALYSES	208	S	MAR INCORPORATED
215	S	INTEGRATED SYSTEMS ANALYSTS	148	S	MAREMONT CORPORATION
153	B	INTERMETRICS INC	210	B	MARQUARDT COMPANY THE
22	B	INTERNATIONAL BUS MCHS CORP	2	B	MARTIN MARIETTA CORPORATION
442	B	INTERNATIONAL COMPUTERS TELECOM	212	F	MARTIN BAKER AIRCRAFT CO LTD
54	B	INTERSTATE ELECTRONICS CORP	15	N	MASSACHUSETTS INST OF TECHNOLOGY
306	F	ISRAEL AER IND	164	N	MASSACHUSETTS UNIVERSITY OF
126	F	ISRAEL AIRCRAFT INDUS INTL	392	B	MATERIALS SCIENCE CORP
279	F	ISRAELI MINISTRY OF DEFENSE	78	B	MAXWELL LABORATORIES INC
384	F	ITE INC	434	B	MAYFLOWER COMMUNICATION CO
29	F	ITT CORPORATION	1	B	MC DONNELL DOUGLAS AIRCRAFT
197	N	ITT RESEARCH INSTITUTE	8	B	MC DONNELL DOUGLAS CORPORATION
280	B	ITT/MARTIN MARIETTA JV	112	B	MC DONNELL DOUGLAS HELICOPTER
351	B	J W P COMMUNICATIONS MFG CO	300	B	MC DONNELL DOUGLAS INCO INC
116	B	JAYCOR	137	B	MCDONNELL DGLS BELL HEL TEX JV
18	N	JOHNS HOPKINS UNIVERSITY	80	B	MCDONNELL DOUGLAS ASTRONAUTICS
411	F	KAMAN AEROSPACE CORPORATION	303	N	MERCER UNIVERSITY
114	B	KAMAN CORPORATION	89	F	MESSERSCHMITT-BOELKOW BOHLM
68	B	KAMAN SCIENCES CORPORATION	441	N	MICHIGAN DEPT OF PUBLIC HEALTH
378	B	KETRON INC	472	B	MICROELECTRONICS
335	B	KEystone COMPUTER ASSOCIATES	159	F	MINISTRY OF DEFENSE UK
446	B	KNOWLEDGE SYSTEMS CONCEPTS	96	B	MISSION RESEARCH CORPORATION
421	B	KULLMORGEN CORPORATION	19	N	MITRE CORPORATION
386	B	L GARDE INC	57	B	MORTON THIOKOL INC
496	B	LASER SCIENCE, INC	41	B	MOTOROLA INC
388	F	LEADING SYSTEMS, INC	460	B	N K F ENGINEERING INC
92	B	LEAR SIEGLER INC	269	B	NATION INC
60	B	LIGHT HELICOPTER TURBIN ENG	274	N	NATIONAL ACADEMY SCIENCES USA
195	B	LITTLE ARTHUR D INC	500	B	NATIONAL FORGE COMPANY
213	B	LITTEN INDUSTRIES INC	457	N	NATIONAL SCIENCE FOUNDATION
31	B	LITTEN SYSTEMS INC	439	N	NATIVE AMERICAN SERVICE ASSN
34	B	LOCKHEED CORPORATION	477	B	NETWORK EQUIPMENT TECHNOLOGIES
125	B	LOCKHEED ELECTRONICS CO	349	B	NETWORK SOLUTIONS INC
379	B	LOCKHEED ENGRG & SCIENCES CO	204	N	NEW MEXICO STATE UNIVERSITY
10	F	LOCKHEED MISSILES & SPACE CO	334	N	NEW YORK UNIVERSITY
211	B	LOCUS INC	255	B	NEWPORT NEWS SHIPBUILDING DRYDOCK
30	B	LOGICON INC	83	B	NICHOLS RESEARCH CORPORATION
454	B	LOGISTICS MANAGEMENT ENGRG	407	B	NORDEN SYSTEMS INC
145	N	LOGISTICS MANAGEMENT INST	251	N	NORTH CAROLINA STATE UNIV
56	B	LORAL CORPORATION	452	N	NORTHEASTERN UNIVERSITY CORP
387	B	LORAL SYS CO	32	B	NORTHROP CORPORATION
278	B	LOS ALAMOS TECHNICAL ASSOC INC	368	N	NORTHWESTERN UNIVERSITY
442	N	LOUISIANA STATE UNIVERSITY	493	B	NTS ENGINEERING
459	B	LSI INC	342	B	NUCLEAR METALS INC
24	B	LTV AEROSPACE & DEFENSE CO	449	B	O A O CORPORATION
67	B	M D T T INC	417	B	OCEAN DATA SYSTEMS INC
115	B	M A COM LINKBIT INC	361	B	ODYSSEY RESEARCH ASSOCIATES
313	B	MAC AULAY-BROWN INC	328	N	OHIO STATE UNIVERSITY

* B = Business Firm

F = Foreign Contractor

N = Nonprofit Institution

Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors for Research, Development, Test, and Evaluation Work: FY 1988

RANK	*	CONTRACTOR	RANK	*	CONTRACTOR
192	B	OLIN CORPORATION	458	B	ROHM AND HAAS COMPANY
283	B	OPTIC-ELECTRONIC CORP	132	F	ROYAL NORVEGIAN NAVAL MATERIAL
247	B	OPTIMETRICS INC	430	N	RUTGERS THE STATE UNIVERSITY
239	B	ORBITAL SCIENCES CORPORATION	252	B	S SYSTEMS CORPORATION
206	N	OREGON STATE UNIVERSITY	124	B	SACHS-FREEMAN ASSOCIATES INC
304	B	ORINCON CORPORATION	237	N	SALK INST FOR BIOLOGICAL STUDIES
417	B	ORION INT'L TECHNOLOGIES	66	B	SANDERS ASSOCIATES INC
275	B	ORLANDO HELICOPTER AIRWAYS	138	B	SCHAFFER W J ASSOCIATES INC
346	B	P D A ENGINEERING	456	B	SCI TEC INC
186	B	PACER SYSTEMS INC	498	B	SCIENCE & ENGINEERING ASSOC
181	B	PACIFIC SIERRA RESEARCH CORP	406	B	SCIENCE & TECHNOLOGY ASSOC
482	B	PACIFICA TECHNOLOGY	399	B	SCIENCE & TECHNOLOGY CORP
119	B	PAN AM WORLD SERVICES INC	35	B	SCIENCE APPLICATIONS INT'L CORP
163	B	PAR TECHNOLOGY CORPORATION	354	B	SCIENCE RESEARCH LABORATORY
476	B	PARSONS RALPH M COMPANY THE	447	B	SCIENTIFIC RESEARCH ASSOC
409	B	PATEL ENTERPRISES INCORPORATED	470	B	SCIENTIFIC SYSTEMS INC
63	N	PENNSYLVANIA STATE UNIV THE	359	B	SCOPE INCORPORATED
107	B	PERCEPTRONICS INC	357	B	SEACO INC
134	B	PERKIN ELMER CORPORATION	268	B	SEMCOR INC
353	B	PHOTON RESEARCH ASSOCIATES	23	B	SINGER COMPANY THE
318	B	PHYSICAL RESEARCH INC	324	B	SIPPICAN INC
373	B	PHYSICAL SCIENCES INC	319	F	SNIA BPD
129	B	PHYSICS INTERNATIONAL COMPANY	200	B	SOFTECH INC
161	B	PICKER INTERNATIONAL INC	348	B	SONALISTS INC
222	B	PLANNING RESEARCH CORPORATION	141	B	SONICRAFT INC
152	B	PLANNING SYSTEMS INCORPORATED	127	N	SOUTH CAROLINA RES AUTHORITY
416	B	POLARIS INC	331	N	SOUTHEASTERN CTR ELECTR ENG ED
356	N	POLYTECHNIC UNIV OF NEW YORK	487	N	SOUTHERN METHODIST UNIVERSITY
475	B	POTOMAC SYSTEMS ENGINEERING	219	N	SOUTHERN RESEARCH INSTITUTE
244	N	PRINCETON UNIVERSITY	172	N	SOUTHWEST RESEARCH INSTITUTE
182	N	PURDUE UNIVERSITY	195	B	SPACE APPLICATIONS CORPORATION
187	B	QUEST RESEARCH CORPORATION	75	B	SPACE COMMUNICATION COMPANY
260	B	QUESTECH INC	143	B	SPACE DATA CORPORATION
84	B	R & D ASSOCIATES	81	B	SPARTA INC
235	B	R J O ENTERPRISES INC	271	B	SPARTON CORPORATION
398	B	RAIL COMPANY	29	B	SPERRY CORPORATION
65	N	RAND CORPORATION	282	B	SPIRE CORPORATION
480	B	RAVEN INC	49	N	SRI INTERNATIONAL
255	B	RAYMOND ENGINEERING INC	131	B	SRS TECHNOLOGIES
5	B	RAYTHEON COMPANY	158	B	STANFORD TELECOMMUNICATIONS
220	B	RAYTHEON SERVICE COMPANY	79	N	STANFORD UNIVERSITY
26	B	RCA CORPORATION	389	N	STATE OF OKLAHOMA
467	B	REMINGTON ARMS COMPANY INC	266	N	STATE UNIVERSITY OF NEW YORK
226	N	RENNSELAER POLYTECHNIC INST	227	B	STERIMATICS CORPORATION
478	B	RESEARCH & DEV LABORATORIES	330	B	SUMMIT AVIATION INC
198	N	RESEARCH TRIANGLE INSTITUTE	403	B	SUMMIT TECHNOLOGIES INC
495	N	RICE WILLIAM MARSH UNIVERSITY	311	B	SUNDSTRAND CORPORATION
98	N	RIVERSIDE RESEARCH INSTITUTE	53	B	SVARDRUP TECHNOLOGY INC
322	B	RMS TECHNOLOGIES INCORPORATED	432	B	SYNCHROTRON PROTECTION SYSTEMS
6	B	ROCKWELL INTERNATIONAL CORP	295	B	SYNETICS CORPORATION

* B = Business Firm

F = Foreign Contractor

N = Nonprofit Institution

Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors for Research, Development, Test, and Evaluation Work: FY 1988

RANK	*	CONTRACTOR	RANK	*	CONTRACTOR
422	N	SYRACUSE RESEARCH CORP	47	N	UNIVERSITY OF CALIFORNIA
207	N	SYRACUSE UNIVERSITY	281	N	UNIVERSITY OF CENTRAL FLORIDA
106	B	SYSCON CORPORATION	434	N	UNIVERSITY OF CHICAGO THE
168	B	SYSTEM DEVELOPMENT CORPORATION	338	N	UNIVERSITY OF COLORADO
375	B	SYSTEM DYNAMICS INC	401	N	UNIVERSITY OF CONNECTICUT
173	B	SYSTEM PLANNING CORPORATION	117	N	UNIVERSITY OF DAYTON INC
473	B	SYSTEM RESOURCES CORPORATION	450	N	UNIVERSITY OF DELAWARE
189	B	SYSTEMS & ELECTRONICS INC	321	N	UNIVERSITY OF FLORIDA
427	B	SYSTEMS & LOGISTICS CORP	464	N	UNIVERSITY OF HAWAII
461	B	SYSTEMS APPLICATIONS, INC	109	N	UNIVERSITY OF ILLINOIS
265	B	SYSTEMS EXPLORATION INC	391	N	UNIVERSITY OF IOWA THE
238	B	SYSTEMS PLANNING & ANALYSIS	142	N	UNIVERSITY OF MARYLAND
418	B	SYSTEMS RES APPLICATIONS CORP	176	N	UNIVERSITY OF MICHIGAN
95	B	SYSTEMS RESEARCH LABORATORIES	309	N	UNIVERSITY OF MINNESOTA
350	B	SYSTRAN CORP	245	N	UNIVERSITY OF NEW MEXICO
488	B	T S C INC	344	N	UNIVERSITY OF NORTH CAROLINA
463	B	TALLEY DEFENSE SYSTEMS INC	233	N	UNIVERSITY OF PENNSYLVANIA
241	B	TECHDYN SYSTEMS CORPORATION	424	N	UNIVERSITY OF PITTSBURGH
299	B	TECHNICAL & MGT SVCS CORP	360	N	UNIVERSITY OF RHODE ISLAND
465	B	TECHNOLOGY DEVELOPMENT CORP	232	N	UNIVERSITY OF ROCHESTER
372	B	TEKNOWLEDGE INC	87	N	UNIVERSITY OF SOUTHERN CALIF
485	B	TELECOMMUNICATION SCIENCE ASSOC	382	N	UNIVERSITY OF TENNESSEE
39	B	TELEDYNE INC	64	N	UNIVERSITY OF TEXAS SYSTEM
184	B	TELEDYNE INDUSTRIES INC	250	N	UNIVERSITY OF UTAH
169	B	TETRA TECH INC	362	N	UNIVERSITY OF VIRGINIA
240	N	TEXAS A & M UNIVERSITY	108	N	UNIVERSITY OF WASHINGTON
37	B	TEXAS INSTRUMENTS INCORPORATED	209	N	UNIVERSITY OF WISCONSIN SYSTEM
443	B	TEXAS RESEARCH INSTITUTE INC	122	N	UTAH STATE UNIVERSITY
221	B	TEXTRON INC	390	B	UTD INC
440	B	THINKING MACHINES CORPORATION	312	N	VANDERBILT UNIVERSITY THE
380	B	TITAN CORPORATION	218	B	VECTOR RESEARCH COMPANY INC
435	B	TOYON RESEARCH CORP	144	B	VEDA INCORPORATED
367	B	TRACOR APPLIED SCIENCES INC	196	B	VERAC INCORPORATED
308	B	TRACOR INC	286	N	VIRGINIA POLYTECHNICAL INST
285	B	TRACOR INSTRUMENTS AUSTIN INC	474	B	VISIDYNE INC
9	B	TRJ INC	70	B	VITRO CORPORATION
332	B	U S B I CO	180	B	VITRONICS INC
224	N	U S DEPARTMENT OF COMMERCE	155	B	VSE CORPORATION
201	B	U T I L CORPORATION	277	B	WALLACE T H INC
61	B	UNISYS CORPORATION	120	B	WATKINS-JOHNSON COMPANY
431	B	UNITED AIRLINES SERVICES CORP	421	B	WEIDLINGER ASSOCIATES INC
326	B	UNITED INTERNATIONAL ENGRG	225	B	WESTERN INSTRUMENT CORPORATION
385	F	UNITED KINGDOM AUTOMIC	149	B	WESTERN RESEARCH CORPORATION
345	F	UNITED KINGDOM MINISTRY OF DEF	17	B	WESTINGHOUSE ELECTRIC CORP
355	N	UNITED STATES DEPT ENERGY	191	B	WILLIAMS INTERNATIONAL CORP
14	B	UNITED TECHNOLOGIES CORP	139	N	WOODS HOLE OCEANOGRAPHIC INSTN
327	N	UNIV CORP FOR ATMOSPHERIC RSC	288	B	XEROX CORPORATION
148	B	UNIVERSAL ENERGY SYSTEMS INC	258	B	KONTECH INC
249	N	UNIVERSITY OF ALABAMA	223	N	YALE UNIVERSITY
256	N	UNIVERSITY OF ARIZONA	340	B	ZEROONE SYSTEMS INC

* B = Business Firm

F = Foreign Contractor

N = Nonprofit Institution

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars	
1	MC DONNELL DOUGLAS AIRCRAFT Huntington Bea Long Beach Seattle	2,156,223 * 1,930 2,154,149 144		ROCKWELL INTERNATIONAL CORP El Segundo Los Angeles Newport Beach Rockville Santa Barbara Seal Beach Thousand Oaks Colorado Sprin Duluth Norcross Cedar Rapids Albuquerque Kirtland AFB Columbus Tulsa Richardson	406 307,918 257 228 685 16,814 14,533 1,292 19,100 452 11,003 2,462 15,734 394 366 31,948	
2	MARTIN MARIETTA CORPORATION Mountain View Sunnyvale Vandenberg AFB Denver Littleton Waterton Washington Orlando Baltimore Bethesda Germantown Glen Burnie Halethorpe Middle River Bellevue Albuquerque Kirtland AFB Rome Wright Patters Vienna	2,025,741 * 450 125 2,655 1,721,306 14,438 430 108 246,107 17,535 11,731 30 2,396 602 2,200 889 2,643 493 239 1,164 200		7	GENERAL ELECTRIC COMPANY Huntsville Williams AFB San Jose Daytona Beach Greenbelt Burlington Lexington Lynn Pittsfield Wilmington Syracuse Moorestown-Len Princeton Schenectady Syracuse Utica Cincinnati King of Prussia Philadelphia Valley Forge Burlington	710,174 * 52,794 2,819 60 533- 211 39 292 35,533 34,858 311 233 125 5,000 133,739 43,034 23,284 271,138 464 90,677 177 15,919
3	BOEING COMPANY THE Huntsville Benedict Wichita L. G. Hanscom Philadelphia Ridley Ridley Park Houston Kent Seattle	878,735 * 20,283 778- 74,395 657- 20,956 339 50 54 47,717 716,376		8	MC DONNELL DOUGLAS CORPORATION Huntsville Anaheim Huntington Bea Long Beach Denver Cape Canaveral Eglin Air Forc Annapolis Patuxent River Berkeley St. Louis Wright Patters Bergstrom AFB	663,984 * 807 32,000 353,746 103,251 95 857 798 300 255 2,160 167,463 364 1,888
4	GRUMMAN AEROSPACE CORPORATION Edwards AFB Bethpage Beukendael Huntington Melville	843,384 * 6,158 834,089 235 265 2,637		9	TRW INC Huntsville Los Angeles Redondo Beach San Bernardino San Diego Sunnyvale Warner Robins Bedford Boston Albuquerque Beaver Creek Cleveland Dayton Wright Patters Alexandria Fairfax Falls Church	658,703 * 21,945 3,892 346,857 205,389 38,723 3,627 737 312- 16,617 45- 500 32 4,292 6,522 1,254 8,428 245
5	RAYTHEON COMPANY Goleta Oxnard San Diego Andover Bedford Lexington Lowell Marlboro Marlborough Northborough Norwood Sudbury Tewksbury Waltham Wayland West Andover Wayne East Providenc Portsmouth Keyport Naval	840,902 * 12,859 35- 836 16,066 113,801 1,657 11,102 43 92,010 121 130 288,661 30 1,974 270,543 7,473 48 300 22,685 80 418				
6	ROCKWELL INTERNATIONAL CORP Huntsville Brashears Anaheim Downey Edwards AFB	737,671 * 150 198 203,325 106,525 3,881				

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor	Location of Work	Thousands of Dollars	Rank	Name of Contractor	Location of Work	Thousands of Dollars
10	LOCKHEED MISSILES & SPACE CO		611,153 *		WESTINGHOUSE ELECTRIC CORP		
	Huntsville	Alabama	2,298		West Mifflin	Penn	35,121
	Palo Alto	California	16,216	20	HONEYUELL INC		285,930 *
	Santa Clara	California	1,502		Glendale	Arizona	190
	Sunnyvale	California	567,003		Phoenix	Arizona	1,028
	Mercury	Nevada	767-		West Covina	California	4,319
	Sunspot	New Mexico	32		Colorado Sprin	Colorado	240
	White Sands Ms	New Mexico	5,000		Denver	Colorado	139
	Austin	Texas	19,769		Littleton	Colorado	79
	Salt Lake City	Utah	100		Clearwater	Florida	14,299
11	HUGHES AIRCRAFT COMPANY		581,452 *		Tampa	Florida	225
	Tucson	Arizona	187,346		Annapolis	Maryland	220
	Buena Park	California	1,125		Lexington	Mass	17,664
	Carlsbad	California	10,013		Wilmington	Mass	460
	Culver City	California	1,978		Bloomington	Minnesota	5,563
	El Segundo	California	232,414		Brooklyn Park	Minnesota	37,870
	Fullerton	California	68,233		Edina	Minnesota	1,047
	Goleta	California	8,369		Golden Valley	Minnesota	426
	Irvine	California	756		Hopkins	Minnesota	102,945
	Long Beach	California	227-		Minneapolis	Minnesota	12,845
	Los Angeles	California	49,744		Minnetonka	Minnesota	50,462
	Malibu	California	12,984		Plymouth	Minnesota	22,741
	Newport Beach	California	167		St. Louis Park	Minnesota	163
	San Diego	California	616	21	Eatontown	New Jersey	993
	Sunnyvale	California	236		Albuquerque	New Mexico	10,035
	Torrance	California	6,337		Horsham	Penn	1,345
	Des Plaines	Illinois	204		Richardson	Texas	82
	Baltimore	Maryland	657		McLean	Virginia	550
	Albuquerque	New Mexico	200				
	Dahlgren	Virginia	300				
12	BELL BOEING JV		426,674 *				
	Fort Worth	Texas	426,674				
13	GENERAL DYNAMICS CORPORATION		417,545 *				
	Ontario	California	14,812				
	Pomona	California	97,049				
	Rancho Cucamong	California	10,372				
	San Diego	California	108,841				
	Clinton	Conn	38-				
	Groton	Conn	60,675				
	Center Line	Michigan	15,519				
	Sterling Heigh	Michigan	18,364				
	Warren	Michigan	1,151				
	St. Louis	Missouri	1,007				
	Middletown	Rhode Isld	69				
	Fort Worth	Texas	87,899	22			
	Harlingen	Texas	1,825				
14	UNITED TECHNOLOGIES CORP		405,694 *				
	San Jose	California	3,109				
	East Hartford	Conn	25,344				
	East Hartland	Conn	75				
	Hartford	Conn	175				
	South Windsor	Conn	4,751				
	Stratford	Conn	65,444				
	Windsor Locks	Conn	2,358				
	Flora	Florida	160				
	Kite	Florida	92				
	West Palm Beac	Florida	303,613				
	Albuquerque	New Mexico	108				
	Dayton	Ohio	465				
17	WESTINGHOUSE ELECTRIC CORP		363,536 *				
	Sunnyvale	California	89,056				
	Annapolis	Maryland	617				
	Baltimore	Maryland	83,390				
	Baltimore-Wash	Maryland	5,167				
	Cockeysville	Maryland	650				
	Cleveland	Ohio	1,837				
	Lima	Ohio	44				
	Wright Patters	Ohio	550				
	Borough	Penn	134,985				
	Pittsburgh	Penn	12,119				
				23	SINGER COMPANY THE		168,741 *
					Luke Air Force	Arizona	1,634
					Williams AFB	Arizona	3,688
					Jacksonville	Arkansas	150
					Belmont	California	286
					Glendale	California	595
					Stamford	Conn	1,000
					Fort Wayne	Indiana	125
					Silver Spring	Maryland	228
					Little Falls	New Jersey	115,398
					Wayne	New Jersey	12,220
					Binghamton	New York	5,951
					Dallas-Fort Wo	Texas	21,629
					Houston	Texas	5,827

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
24	LTV AEROSPACE & DEFENSE CO College Park Maryland Buffalo New York Dallas Texas Grand Prairie Texas Dayton Wisconsin	153,687 * 210 350 125,236 27,852 39	33	AEROJET SOLID PROPULSION CO Sacramento California Sacramento Arm California	117,951 * 115,721 2,230
25	A T & T TECHNOLOGIES INC Eatontown New Jersey New Providence New Jersey Whippany New Jersey Schenectady New York Greensboro N Carolina Reading Penn	149,135 * 270 770 5,838 500 136,733 5,024	34	LOCKHEED CORPORATION Burbank California Ontario California Palo Alto California Saugus-Bouquet California Marietta Georgia	113,903 * 72,425 17,151 60 775 23,492
26	RCA CORPORATION Panama City Florida Burlington Mass Camden New Jersey Cherry Hill New Jersey Moorestown New Jersey Moorestown-Len New Jersey Morristown New Jersey Princeton New Jersey Somerville New Jersey Warminster Penn Fort Worth Texas	148,271 * 58 747 19,101 384 4,331 88,235 1,334 28,758 2,480 768 2,075	35	SCIENCE APPLICATIONS INT'L CORP Huntsville Alabama Tucson Arizona Hernosa Beach California Irvine California Los Altos California Los Angeles California Monterey California Placentia California San Diego California Santa Barbara California Sunnyvale California Torrance California Englewood Colorado Washington D.C. Fort Walton Beach Florida Orlando Florida Marietta Georgia Kailua Hawaii Albuquerque New Mexico Rome New York Dayton Ohio Wright Patters Ohio Wayne Penn Arlington Virginia Dahlgren Virginia McLean Virginia	113,763 * 6,250 4,014 8,366 365 490 137 1,731 6,518 49,496 95 144 447 299 60 503 2,728 280 2,601 918 200 4,930 633 30 338 667 21,523
27	FORD AEROSPACE El Monte California Newport Beach California Palo Alto California San Jose California Sunnyvale California Colorado Sprin Colorado Fort Leavenwo Kansas Leavenworth Kansas	141,968 * 216 22,498 34,294 35,137 17,221 23,430 970 8,202	36	COLLINS INTERNATIONAL SV CO Cedar Idaho Cedar Rapids Iowa Richardson Texas	108,857 * 334 108,285 238
29	SPERRY CORPORATION Huntsville Alabama Phoenix Arizona Clearwater Florida St. Paul Minnesota Great Neck New York Salt Lake City Utah McLean Virginia Reston Virginia	135,934 * 101 272 700 20,004 104,813 2,071 3,053 4,920	37	TEXAS INSTRUMENTS INCORPORATED Ridgecrest California Colorado Sprin Colorado Allenfarm Texas Dallas Texas Dallas-Fort Wo Texas Lewisville Texas McKinney Texas Plano Texas Sherman Texas	107,596 * 147 16,555 360 76,631 665 9,060 200 2,778 1,200
30	AEROJET ELECTROSYSTEMS CO Azusa California	131,764 * 131,764	38	ITT CORPORATION Los Angeles California San Diego California Fort Wayne Indiana Nutley New Jersey Wright Patters Ohio Easton Penn Roanoke Virginia	99,954 * 2,463 127 14,611 80,706 741 150 1,156
31	HERCULES INCORPORATED Wilmington Delaware Clearwater Florida Cumberland Maryland Magna Utah Rocket Center W Virginia	131,665 * 236 6,653 688 90,571 33,517	39	TELEDYNE INC Huntsville Alabama Los Angeles California Sunnyvale California Muskegon Michigan Toledo Ohio	96,492 * 92,023 1,600 79 500 2,290
32	NORTHROP CORPORATION Anaheim California El Segundo California Hawley California Hawthorne California Palmdale California Palos Verdes P California Pico Rivera California Rolling Hilis California Thousand Oaks California Palos Verdes California Rolling Meadow Illinois Norwood Mass	123,939 * 15,087 250 180 25,042 70,450 70 1,365 1,095 3,489 1,478 2,615 2,818			

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
40	FMC CORPORATION Anniston San Jose Santa Clara Minneapolis	93,584 * 138 54,537 35,833 3,076	50	BDM CORPORATION Huntsville Hawthorne Monterey Tyndall AFB Columbia Albuquerque Kettering McLean Springfield Seattle	58,351 * 2,955 99 285 4,015 250 17,618 46 32,548 175 360
41	MOTOROLA INC Phoenix Scottsdale Tempe	88,500 * 500 60,888 27,112	51	AVCO RESEARCH LABORATORY INC Puunene Everett	55,609 * 10,958 44,651
42	AEROJET GENERAL CORPORATION Azusa Downey Nimbus Sacramento Sacramento Arm	82,929 * 52,084 13,384 152 17,024 285	53	SVERDRUP TECHNOLOGY INC Arnold AFS Tullahoma	54,712 * 51,769 2,943
43	AVCO CORPORATION Stratford Stratford AEP Lowell Wilmington	81,337 * 324 38,936 2,897 39,180	54	INTERSTATE ELECTRONICS CORP Anaheim	52,389 * 52,389
44	COMPUTER SCIENCES CORPORATION Huntsville Camarillo San Diego Fort Walton Be Bedford Lakewood Morestown-Len Oceanport Shrewsbury Albuquerque Huntingdon Val Dahlgren Falls Church	79,573 * 8,218 7,915 20,233 4,105 26- 222 7,013 257 2,413 10,845 4,532 7,880 5,966	55	BOLT BERANEK & NEUMAN INC Los Angeles San Diego New London Cambridge Buell	51,578 * 1,087 718 58 49,155 560
45	ALLIED SIGNAL AEROSPACE CO Phoenix Los Angeles Torrance Washington Baltimore Churchill Columbia Oxon Hill St. Inigoes Towson Mercury Teterboro	73,802 * 7,099 808 7,037 7,930 12,548 125 29,844 350 4,119 1,033 1,949 960	56	LORAL CORPORATION Litchfield Par New York Yonkers Akron	51,144 * 2,439 5,022 161 43,522
46	HARRIS CORPORATION Boca Raton Melbourne Palm Bay Winter Park Chicago O'Hare Omaha Syosset	69,441 * 324- 59,387 4,080 1,611 47 97 4,543	57	MORTON THIOKOL INC Huntsville Elkton Brigham City	50,884 * 2,651 3,190 45,043
48	CALSPAN CORPORATION Albany Buffalo Dayton Norristown Philadelphia Greenville Arnold AFS	65,310 * 173 15,732 308 128 100 190 48,679	59	GTE PRODUCTS CORP DEL CORP Mountain View Colorado Sprin Billerica Danvers Needham Westboro Westborough Towanda	49,793 * 1,067 782 27,903 35 13,633 129 5,425 849
			60	LIGHT HELICOPTER TURBIN ENG St. Louis	49,540 * 49,540
			61	UNISYS CORPORATION Huntsville Glendale Camarillo San Diego Panama City Be Eagan St. Paul Great Neck Dayton Paoli Trevose Warminster Dahlgren Herndon Reston	48,319 * 403 300 2,612 2,266 330 6,062 2,454 24,500 445 210 1,266 433 2,340 74 4,624

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor	Location of Work	Thousands of Dollars	Rank	Name of Contractor	Location of Work	Thousands of Dollars
62	BALL CORPORATION		46,922 *	78	MAXWELL LABORATORIES INC		35,081 *
	San Diego	California	2,170		Placentia	California	162
	Boulder	Colorado	43,833		San Diego	California	31,937
	Broomfield	Colorado	366		Albuquerque	New Mexico	1,837
	Kirtland AFB	New Mexico	553		Alexandria	Virginia	154
66	SANDERS ASSOCIATES INC		43,498 *		Reston	Virginia	127
	Hudson	N.H.	80-		Richmond	Virginia	864
	Merrimack	N.H.	501	80	MCDONNELL DOUGLAS ASTRONAUTICS		32,423 *
	Nashua	N.H.	40,552		Titusville	Florida	32,423
	North Bergen	New Jersey	2,525	81	SPARTA INC		31,654 *
67	M D T T INC		42,516 *		Huntsville	Alabama	5,403
	Orlando	Florida	42,516		Del Mar	California	653
68	KAMAN SCIENCES CORPORATION		41,766 *		Edwards AFB	California	5,397
	Huntsville	Alabama	505		Laguna Beach	California	286
	Santa Barbara	California	4,827		Laguna Hills	California	8,740
	Santa Monica	California	1,223		Placentia	California	500
	Colorado Sprin	Colorado	19,042		San Diego	California	646
	Burlington	Mass	863		Lexington	Mass	506
	Albuquerque	New Mexico	12,412		McLean	Virginia	9,523
	Alexandria	Virginia	2,894	82	CONTEL PAGE SYSTEMS INC		30,887 *
70	VITRO CORPORATION		41,016 *		Fairfax	Virginia	30,887
	New London	Conn	496	83	NICHOLS RESEARCH CORPORATION		30,269 *
	New London Nav	Conn	343		Huntsville	Alabama	26,420
	Bethesda	Maryland	291		Boston	Mass	49
	Silver Spring	Maryland	37,424		Wakefield	Mass	1,500
	Warminster	Penn	102		Ann Arbor	Michigan	50
	Dahlgren	Virginia	2,360		Albuquerque	New Mexico	1,779
71	ANALYTIC SCIENCES CORP		40,441 *		White Sands Ms	New Mexico	471
	Fort Walton Be	Florida	1,805	84	R & D ASSOCIATES		30,217 *
	Reading	Mass	33,407		Marina del Ray	California	19,291
	Fairborn	Ohio	5,137		Washington	D.C.	150
	Arlington	Virginia	92		Albuquerque	New Mexico	1,115
72	EATON CORPORATION		39,160 *		Kirtland AFB	New Mexico	6,318
	Westlake Villa	California	134		Alexandria	Virginia	270
	Beverly	Mass	150		Fort Lewis	Washington	729
	Deer Park	New York	34,121		GERMANY, F		2,344
	Deer River	New York	4,114	85	GEO-CENTERS INC		29,184 *
	Melville	New York	641		Washington	D.C.	20,110
73	E-SYSTEMS INC		38,522 *		Edgewood Arsen	Maryland	449
	Saint Petersbu	Florida	22,980		Natick	Mass	329
	Dallas	Texas	13,188		Natick Researc	Mass	196
	Greenville	Texas	1,942		Newton	Mass	5,863
	Fairfax	Virginia	330		Watertown	Mass	200
	Falls Church	Virginia	82		Wilmington	Mass	63
74	HARSCO CORPORATION		38,434 *		Dover	New Jersey	1,974
	East Stroudsbu	Penn	64	86	BOOZ ALLEN & HAMILTON INC		28,114 *
	York	Penn	38,370		Huntsville	Alabama	1,100
75	SPACE COMMUNICATION COMPANY		38,426 *		Bethesda	Maryland	15,499
	Gaithersburg	Maryland	38,426		Silver Spring	Maryland	3,980
76	GENERAL RESEARCH CORPORATION		37,656 *		Tinton Falls	New Jersey	50
	Huntsville	Alabama	10,574		Albuquerque	New Mexico	975
	Hollister	California	76		Wright Fitters	Ohio	5,241
	Los Angeles	California	280		Arlington	Virginia	1,269
	Santa Barbara	California	24,225	90	LOGICON INC		26,889 *
	Chelmsford	Mass	100		Los Angeles	California	20,858
	McLean	Virginia	2,401		San Diego	California	1,732
77	BELL HELICOPTER TEXTRON INC		35,752 *		San Pedro Hill	California	245
	Fort Worth	Texas	35,752		Bellevue	Nebraska	3,136
					Dayton	Ohio	30
					Fairfax	Virginia	888
				91	FOUNDATION HEALTH CORPORATION		26,888 *
					Sacramento	California	26,888

- = Minus Amount (Cancellations Exceed New Awards)

S = Small Business

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor	Location of Work	Thousands of Dollars	Rank	Name of Contractor	Location of Work	Thousands of Dollars
92	LEAR SIEGLER INC		26,572 *	107	PERCEPTRONICS INC		21,224 *
	Santa Monica	California	109		Los Angeles	California	20,494
	Grand Rapids	Michigan	26,463		Ann Arbor	Michigan	730
93	EARTH TECHNOLOGY CORPORATION	S Long Beach	26,374 *	111	A A I CORPORATION	Florida	20,166 *
		California	26,374		Panama City Be	Florida	37
94	COLSA INC	Huntsville	S 26,025 *		Baltimore	Maryland	5,122
		Alabama	26,025		Cockeysville	Maryland	15,007
95	SYSTEMS RESEARCH LABORATORIES		25,160 *	112	MC DONNELL DOUGLAS HELICOPTER		20,060 *
	Dayton	Ohio	12,998		Mesa	Arizona	19,460
	Wright Patters	Ohio	11,149		Culver City	California	449
	San Antonio	Texas	1,013		Rock Island	Illinois	108
					Holloman AFB	New Mexico	43
96	MISSION RESEARCH CORPORATION	S Santa Barbara	25,126 *	113	CONTROL DATA CORPORATION		19,955 *
		California	20,344		San Diego	California	178
	Colorado Sprin	Colorado	200		Rockville	Maryland	57
	Mashua	N.H.	1,096		Bloomington	Minnesota	124
	Albuquerque	New Mexico	3,233		Minneapolis	Minnesota	19,596
	Los Alamos	New Mexico	50				
	Dayton	Ohio	63	114	KAMAN CORPORATION		19,931 *
	Alexandria	Virginia	37		Bloomfield	Conn	19,931
	Newington	Virginia	103				
99	ATLANTIC RESEARCH CORPORATION		23,932 *	115	M/A COM LINKABIT INC		19,888 *
	Anaheim	California	212		San Diego	California	16,677
	Rockville	Maryland	5,713		Vienna	Virginia	3,211
	Severna Park	Maryland	1,007	116	JAYCOR	S	19,448 *
	Silver Spring	Maryland	2,344		Los Angeles	California	1,765
	Shrewsbury	New Jersey	3,664		San Diego	California	12,070
	Albuquerque	New Mexico	344		Washington	D.C.	613
	White Sands Ms	New Mexico	200		Edgewood Arsen	Maryland	482
	Dayton	Ohio	117		Vicksburg	Miss	216
	Wright Patters	Ohio	824		Dayton	Ohio	1,691
	Philadelphia	Penn	1,076		Fairborn	Ohio	152
	Warminster	Penn	144		Alexandria	Virginia	1,094
	Alexandria	Virginia	4,749		McLean	Virginia	1,135
	Gainesville	Virginia	3,034		Vienna	Virginia	230
	Sterling	Virginia	56	118	MAGNAVOX GOVT & INDUST ELECTR		19,025 *
	Vienna	Virginia	448		Torrance	California	450
100	AQUA-CHEM INC	Milwaukee	23,684 *		Fort Wayne	Indiana	15,279
		Wisconsin	23,684		Mahwah	New Jersey	3,296
102	GTE GOVERNMENT SYSTEMS INC	Needham	23,242 *	119	PAN AM WORLD SERVICES INC		18,591 *
		Mass	23,183		Cape Canaveral	Florida	18,081
		GERMANY, F	59		Mercury	Nevada	510
103	GENERAL MOTORS CORPORATION		22,921 *	120	WATKINS-JOHNSON COMPANY		18,256 *
	Goleta	California	1,079		San Jose	California	18,256
	Indianapolis	Indiana	20,757				
	Warren	Michigan	1,094	121	ACUREX CORPORATION		18,170 *
					Mountain View	California	6,799
104	EMERSON ELECTRIC CO	Los Angeles	22,756 *		Dayton	Ohio	7,306
		California	1,231		Wright Patters	Ohio	4,065
	St. Louis	Missouri	21,422	123	AMERICAN SYSTEMS CORPORATION	S	17,140 *
	Rochester	New York	103		Annandale	Virginia	17,094
105	CBI NA-CON INC		22,746 *		Chantilly	Virginia	46
	Oak Brook	Illinois	2,222	124	SACHS-FREEMAN ASSOCIATES INC	S	17,076 *
	Wayne	Penn	17,550		Washington	D.C.	10,148
	Memphis	Tennessee	2,974		Beltsville	Maryland	193
106	SYSCON CORPORATION	San Diego	22,681 *		Bowie	Maryland	2,218
	Washington	California	1,026		Landover	Maryland	4,517
	Albuquerque	D.C.	3,421	125	LOCKHEED ELECTRONICS CO		16,944 *
	Newport	New Mexico	442		Plainfield	New Jersey	529
	Dahlgren	Rhode Isld	249		White Sands Ms	New Mexico	16,415
	Naval Surface	Virginia	15,073				
		Virginia	2,470				

- = Minus Amount (Cancellations Exceed New Awards)

S = Small Business

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
128	E G G WASH ANALYTICAL SVCS CTR Sunnyvale California New London Conn Rockville Maryland Kirtland AFB New Mexico Dahlgren Virginia	16,042 * 70 2,088 9,894 625 3,365	147	ELECTROSPACE SYSTEMS INC Eglin Air Forc Florida Dayton Ohio Fairborn Ohio Richardson Texas Waco Texas Arlington Virginia	11,742 * 408 3,798 412- 689 3,047 4,212
129	PHYSICS INTERNATIONAL COMPANY San Leandro California Andover Mass Woodbridge Virginia	15,971 * 14,286 101 1,584	148	UNIVERSAL ENERGY SYSTEMS INC Dayton Ohio Wright Patters Ohio San Antonio Texas	S 11,658 * 11,157 421 80
130	GLOBAL ASSOCIATES JV RM	15,873 * 15,873	149	WESTERN RESEARCH CORPORATION San Diego California	S 11,589 * 11,589
131	SRS TECHNOLOGIES Huntsville Alabama Irvine California Newport Beach California	S 15,736 * 7,017 250 8,469	151	DYNCORP Yuma Proving G Arizona White Sands Ms New Mexico Wright Patters Ohio	11,437 * 5,750 5,462 225
133	HAZELTINE CORPORATION Braintree Mass Greenlawn New York Huntington New York	15,489 * 9,103 6,358 28	152	PLANNING SYSTEMS INCORPORATED James Virginia McLean Virginia	S 11,326 * 172 11,154
134	PERKIN ELMER CORPORATION Hayward California Danbury Conn Norfolk Conn Norwalk Conn Wilton Conn	15,344 * 3,000 11,054 160 30 1,100	153	INTERMETRICS INC Huntington Bea California Bethesda Maryland Cambridge Mass Oceanport New Jersey Dayton Ohio Warminster Penn	11,284 * 2,450 1,306 546 2,410 339 4,233
135	COMBUSTION ENGINEERING INC Sierra Vista Arizona Windsor Conn	15,298 * 15,268 30	154	ASSURANCE TECHNOLOGY CORP Carlisle Mass	S 11,140 * 11,140
137	MCDONNELL DGLS BELL HEL TEX JV Mesa Arizona	14,000 * 14,000	155	VSE CORPORATION Valparaiso Florida Alexandria Virginia	11,135 * 4,721 6,414
138	SCHAFER W J ASSOCIATES INC Los Angeles California Chelmsford Mass Arlington Virginia	S 13,804 * 64 9,165 4,575	156	ESL INCORPORATED Sunnyvale California	10,928 * 10,928
140	ANALYSIS & TECHNOLOGY INC Groton Conn New London Conn New London Nav Conn North Stonington Conn Stonington Conn Panama City Florida Panama City Be Florida Syracuse New York Arlington Virginia	13,402 * 851 1,346 253 5,239 385 61 2,090 335 2,842	157	DEERE JOHN TECHNOLOGIES INTL Woodbridge New Jersey	10,788 * 10,788
			158	STANFORD TELECOMMUNICATIONS Santa Clara California Reston Virginia	S 10,748 * 10,080 668
			160	HARRIS-MAGNAVOX SYSTEMS CO(JV) Melbourne Florida	10,628 * 10,628
141	SONICRAFT INC Chicago Illinois	S 13,343 * 13,343	161	PICKER INTERNATIONAL INC Highland Heigh Ohio	10,560 * 10,560
143	SPACE DATA CORPORATION Tempe Arizona	S 13,210 * 13,210	162	COMARCO INC Sierra Vista Arizona	10,453 * 10,453
144	VEDA INCORPORATED Fort Walton Be Florida Dayton Ohio Arlington Penn Warminster Penn Arlington Virginia Pleasant Gap Virginia	12,315 * 1,622 4,341 574 2,197 3,544 37	163	PAR TECHNOLOGY CORPORATION Colorado Sprin Colorado New Hartford New York Dayton Ohio Huber Heights Ohio	10,432 * 1,549 8,744 90 49
146	APPLIED RESEARCH INC Huntsville Alabama Danbury Conn Arlington Virginia	S 11,892 * 11,387 80 425	165	CHAMBERLAIN MANUFACTURING CORP Niles Illinois Waterloo Iowa Cockeysville Maryland	10,297 * 4,081 3,918 2,298

- = Minus Amount (Cancellations Exceed New Awards)

S = Small Business

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor	Location of Work	Thousands of Dollars	Rank	Name of Contractor	Location of Work	Thousands of Dollars
166	E C CORPORATION			185	LITTLE ARTHUR D INC		8,654 *
	Huntsville	Alabama	2,678		Fort Walton Be	Florida	244
	Fort Knox	Kentucky	1,361		Cambridge	Mass	8,420
	Knoxville	Tennessee	667				
	Oak Ridge	Tennessee	5,424	186	PACER SYSTEMS INC		8,661 *
					Billerica	Mass	1,618
168	SYSTEM DEVELOPMENT CORPORATION		9,940 *		Billerica Cent	Mass	117
	Huntsville	Alabama	3,754		Horsham	Penn	7,022
	Camarillo	California	969		Mildred	Penn	96-
	Santa Monica	California	913				
	Sunnyvale	California	160	187	QUEST RESEARCH CORPORATION		8,656 *
	Eatontown	New Jersey	1,699		Eatontown	New Jersey	200
	West Long Bran	New Jersey	200		Dayton	Ohio	2,196
	Paoli	Penn	1,361		Falls Church	Virginia	155
	Warminster	Penn	136		McLean	Virginia	5,710
	Arlington	Virginia	334		Vienna	Virginia	395
	McLean	Virginia	414	188	ENGINEERING & ECONOMICS RES		8,594 *
169	TETRA TECH INC		9,907 *		Huntsville	Alabama	3,199
	San Bernardino	California	9,907		Beltsville	Maryland	1,034
170	BDM MANAGEMENT SERVICES CO		9,899 *		Germantown	Maryland	1,261
	Kirtland AFB	New Mexico	6,975		McLean	Virginia	2,411
	Fort Hood	Texas	2,924		Reston	Virginia	266
171	ENCORE CORPORATION		9,703 *		Princeton	W Virginia	423
	Marlborough	Mass	9,603	189	SYSTEMS & ELECTRONICS INC		8,584 *
	Somerset	Mass	100		Rolling Meadow	Illinois	8,584
173	SYSTEM PLANNING CORPORATION		9,505 *	190	ANALYTICS INCORPORATED		8,535 *
	Santa Cruz	California	379		Oceanport	New Jersey	428
	Arlington	Virginia	9,126		Tinton Falls	New Jersey	377
174	FOSTER-MILLER INC		9,474 *		Willow Grove	Penn	2,217
	Waltham	Mass	9,406		Manassas	Virginia	5,513
	Waltham North	Mass	68	191	WILLIAMS INTERNATIONAL CORP		8,499 *
175	ADVANCED DECISION SYSTEMS		9,249 *		Walled Lake	Michigan	8,499
	Mountain View	California	9,249	192	OLIN CORPORATION		8,348 *
178	DBA SYSTEMS INC		9,182 *		Stamford	Conn	281
	Irvine	California	418		East Alton	Illinois	8,067
	Kissimmee	Florida	36	194	EAGLE TECHNOLOGY INC		8,327 *
	Melbourne	Florida	8,728		Fullerton	California	3,673
179	GA TECHNOLOGIES INC		9,136 *		Winter Park	Florida	143
	San Diego	California	9,136		Eatontown	New Jersey	443
180	VITRONICS INC		9,068 *		Ocean	New Jersey	209
	Eatontown	New Jersey	4,669		Arlington	Virginia	3,859
	Oceanport	New Jersey	4,399	195	SPACE APPLICATIONS CORPORATION		8,288 *
181	PACIFIC SIERRA RESEARCH CORP		9,019 *		Santa Clara	California	8,288
	Los Angeles	California	6,009	196	VERAC INCORPORATED		8,278 *
	Santa Monica	California	1,559		Anaheim	California	893
	White Sands Ms	New Mexico	749		George AFB	California	427
	Montague	N Carolina	75		San Diego	California	2,988
	Arlington	Virginia	627		Albuquerque	New Mexico	3,145
183	CUMMINS ENGINE COMPANY INC		8,822 *		Fairborn	Ohio	128
	Columbus	Indiana	8,822		Bergstrom AFB	Texas	697
184	TELEDYNE INDUSTRIES INC		8,680 *	199	CALIFORNIA RES & TECHNOLOGY		7,843 *
	Los Angeles	California	2,019		Los Angeles	California	7,155
	San Diego	California	1,620		Princeton	New Jersey	501
	Santa Clara	California	2,496		Albuquerque	New Mexico	187
	Thousand Oaks	California	199	200	SOFTECH INC		7,832 *
	Torrance	California	96		San Diego	California	548
	Muskegon	Michigan	732		Waltham	Mass	110
	Garland	Texas	723		Fairborn	Ohio	274
	Hill Air Force	Utah	407		Houston	Texas	634
	Alexandria	Virginia	388		Alexandria	Virginia	6,266

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
201	U T L CORPORATION Sunnyvale California Dallas Texas	S 7,761 * 153 7,628	221	TEXTRON INC Belmont California Warren Michigan Buffalo New York Wheatfield New York	6,685 * 3,145 133 2,807 800
202	ANALYTICAL SYSTEMS ENGRG CORP Salinas California Westlake Villa California Melbourne Florida Orlando Florida Clarksburg Maryland Burlington Mass Rome New York	S 7,758 * 124 607 310 100 146 6,324 147	222	PLANNING RESEARCH CORPORATION Offutt AFB Nebraska Philadelphia Penn McLean Virginia	6,872 * 263 470 6,139
203	BRUNSWICK CORPORATION Costa Mesa California San Diego California San Francisco California De Land Florida Marion Virginia	7,728 * 4,500 471 43 563 2,151	225	WESTERN INSTRUMENT CORPORATION Ventura California	S 6,793 * 6,793
205	NEWPORT NEWS SHPBLDING DRYDOCK Charlottesville Virginia	7,661 * 7,661	227	STERIMATICS CORPORATION Bedford Mass	6,628 * 6,628
208	MAR INCORPORATED Panama City Florida Rockville Maryland	S 7,506 * 2,552 4,954	228	ADVANCED TECHNOLOGY INC Huntsville Alabama Orlando Florida Naval Undermat Rhode Isld Dahlgren Virginia Reston Virginia	6,627 * 51 1,098 100 1,071 4,307
210	MARQUARDT COMPANY THE Los Angeles California	7,474 * 7,474	230	ELECTRONIC DECISIONS INC Urbana Illinois	S 6,578 * 6,578
211	LOCUS INC Washington D.C. Clarion Penn Sprague Penn State College Penn Alexandria Virginia Arlington Virginia	S 7,448 * 40 138 129 5,939 604 598	234	CAMPBELL ENGINEERING INC Huntsville Alabama	S 6,395 * 6,395
213	LITTON INDUSTRIES INC San Carlos California San Diego California Sunnyvale California Lexington Mass	7,289 * 458 70 1,115 5,646	235	R J O ENTERPRISES INC Lanham Maryland Dayton Ohio	S 6,362 * 5,899 463
214	AEROMET INC Tulsa Oklahoma	S 7,278 * 7,278	236	DYNETICS INC Huntsville Alabama	S 6,293 * 6,293
215	INTEGRATED SYSTEMS ANALYSTS Chula Vista California San Diego California New London Conn Arlington Virginia Merrifield Virginia	S 7,257 * 1,111 350 612 5,073 111	238	SYSTEMS PLANNING & ANALYSIS Arlington Virginia Falls Church Virginia	S 6,221 * 150 6,071
216	FAIRCHILD INDUSTRIES INC Washington D.C. Annapolis Maryland Germantown Maryland Farmingdale New York	S 7,235 * 775 96 6,411 47-	241	TECHDYN SYSTEMS CORPORATION Oceanport New Jersey McLean Virginia Springfield Virginia	S 6,010 * 1,152 493 4,365
217	DEFENSE SYSTEMS INC McLean Virginia	S 7,028 * 7,028	242	GENERAL DYNAMICS WESTINGHSE JV Pomona California	6,000 * 6,000
218	VECTOR RESEARCH COMPANY INC Bethesda Maryland	S 7,027 * 7,027	243	MANTECH INTERNATIONAL CORP Sierra Vista Arizona Los Alamos New Mexico Wright Patters Ohio Alexandria Virginia	5,961 * 1,103 429 4,379 50
220	RAYTHEON SERVICE COMPANY Bath Maine Marlborough Mass White Sands Ms New Mexico Wright Patters Ohio Dahlgren Virginia	S 6,901 * 143 5,287 501 464 506	247	OPTIMETRICS INC Ann Arbor Michigan Fairborn Ohio	S 5,875 * 5,138 737
			248	MAREMONT CORPORATION Saco Maine	5,863 * 5,863
			252	S SYSTEMS CORPORATION Inglewood California Albuquerque New Mexico	S 5,785 * 5,360 425
			253	FAIRCHILD WESTON SYSTEMS INC Palo Alto California Syosset New York Archbald Penn Horsham Penn	5,712 * 275 1,440 3,158 839

* = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
254	ELECTRONIC WARFARE ASSOCIATES Beavercreek Ohio Dayton Ohio Vienna Virginia	5,708 * 50 330 5,328	275	ORLANDO HELICOPTER AIRWAYS Sanford Florida	5,189 * 5,189
255	RAYMOND ENGINEERING INC Middletown Conn	5,700 * 5,700	276	HILTON SYSTEMS INC Huntsville Alabama Tampa Florida Mount Arlington New Jersey	5,114 * 3,250 1,070 794
257	BECHTEL NATIONAL, INC San Francisco California	5,693 * 5,693	277	WALLACE T H INC Indian Harbour Florida Melbourne Florida Melbourne Beach Florida Springfield Virginia	5,109 * 3,490 874 73 672
258	XONTECH INC Los Angeles California	5,651 * 5,651	278	LOS ALAMOS TECHNICAL ASSOC INC Los Alamos New Mexico	5,030 * 5,030
259	I L C INDUSTRIES DELAWARE Frederica Delaware	5,648 * 5,648	280	ITT/MARTIN MARIETTA JV Orlando Florida	5,000 * 5,000
260	QUESTECH INC Dayton Ohio McLean Virginia	5,621 * 50 5,571	282	SPIRE CORPORATION Bedford Mass	4,974 * 4,974
262	ARINC RESEARCH CORPORATION San Diego California Annapolis Maryland	5,593 * 849 4,744	283	OPTIC ELECTRONIC CORP Dallas Texas	4,900 * 4,900
263	EBASCO SERVICES INC New York New York	5,575 * 5,575	284	APTEK INC Colorado Sprin Colorado	4,881 * 4,881
265	SYSTEMS EXPLORATION INC San Diego California Dayton Ohio Vienna Virginia	5,536 * 5,254 225 57	285	TRACOR INSTRUMENTS AUSTIN INC San Ramon California Austin Texas	4,842 * 127 4,715
267	ALLIED SIGNAL INC Phoenix Arizona Thousand Oaks California Torrance California South Bend Indiana Eatontown New Jersey Moorestown Len New Jersey Morristown New Jersey	5,492 * 2,442 1,059 300 109 515 339 728	287	COMPTEK RESEARCH INC Camarillo California	4,822 * 4,822
268	SEMCOR INC Huntsville Alabama Farmingdale New Jersey Mount Laurel New Jersey Wall New Jersey Warminster Penn	5,461 * 50 598 3,394 135 1,284	288	XEROX CORPORATION Palo Alto California Pasadena California Webster New York	4,752 * 810 3,828 114
269	NATION INC Oceanport New Jersey Shrewsbury New Jersey	5,427 * 2,818 2,609	289	ECC INTERNATIONAL CORP Orlando Florida	4,682 * 4,682
270	ARES INC Port Clinton Ohio	5,397 * 5,397	290	APPLIED TECHNOLOGY ASSOCIATES Orlando Florida Albuquerque New Mexico Kirtland AFB New Mexico	4,676 * 183 4,345 148
271	SPARTON CORPORATION Fort Wayne Indiana Jackson Michigan	5,349 * 3,427 1,922	291	GOULD INC El Monte California New London Conn Rolling Meadow Illinois Glen Burnie Maryland Cleveland Ohio Middletown Rhode Isld	4,673 * 116 58 871 1,237 2,413 94
272	DYNAMICS RESEARCH CORPORATION San Diego California Andover Mass Wilmington Mass Ann Arbor Michigan Newport Rhode Isld	5,328 * 81 3,271 948 941 87	292	DCS CORPORATION Alexandria Virginia	4,645 * 4,645
273	AUTOMATED SCIENCES GROUP INC Huntsville Alabama Manhattan Beach California Silver Spring Maryland Dahlgren Virginia	5,323 * 4,834 246- 650 85	293	BRUNSWICK CDC Clearwater Florida	4,637 * 4,637
			294	G & F CO Santa Clara California	4,634 * 4,634
			295	SYNETICS CORPORATION Reading Mass Wakefield Mass Vienna Virginia	4,618 * 2,475 2,194 49

= Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
296	CINCINNATI ELECTRONICS CORP Cincinnati Ohio	4,607 * 4,607	323	ANDRULIS RESEARCH CORP Bethesda Maryland	4,008 * 3,440
298	BERKELEY RESEARCH ASSOCIATES Berkeley California	4,540 * 3,113	324	SIPPICAN INC Marion Mass	3,354 * 3,354
	Fairfax Virginia	70			568
	Springfield Virginia	1,357	325	DOW CORNING CORPORATION Midland Michigan	3,346 * 3,346
299	TECHNICAL & MGT SVCS CORP Eatontown New Jersey	4,533 * 1,011	326	UNITED INTERNATIONAL ENGRG Huntsville Alabama	3,385 * 475
	Oceanport New Jersey	389		Albuquerque New Mexico	3,410
	Dayton Ohio	3,133	329	DOSS AVIATION INC Shepherd Texas	3,774 * 3,774
300	MC DONNELL DOUGLAS INFO INC Tampa Florida	4,512 * 850	330	SUMMIT AVIATION INC Middletown Delaware	3,773 * 3,773
	Chesapeake Virginia	3,327			
	McLean Virginia	335	332	U S B I CO Huntsville Alabama	3,730 * 3,730
301	ARMORED WHITE TECHNOLOGIES ASSOC Troy Michigan	4,505 * 4,505	333	LOCKHEED ENGRG & SCIENCES CO Dugway Proving Utah	3,718 * 3,718
302	E D & G INC Salem Mass	4,503 * 180	335	KEYSTONE COMPUTER ASSOCIATES Fort Washington Penn	3,650 * 3,475
	Las Vegas Nevada	4,393		Warminster Penn	175
	Princeton New Jersey	40	336	DELTA RESEARCH INC Huntsville Alabama	3,572 * 3,572
304	BRONIN CORPORATION Placentia California	4,437 * 1,178	337	COLEMAN RESEARCH CORPORATION Huntsville Alabama	3,520 * 2,869
	San Diego California	3,351		Orlando Florida	651
307	EVALUATION RESEARCH CORP San Diego California	4,342 * 138	338	AYDIN CORPORATION Horsham Penn	3,507 * 3,507
	Fairfax Virginia	4,164	340	ZERODNE SYSTEMS INC Arlington Texas	3,497 * 3,497
308	TRACOR INC Groton Conn	4,337 * 760	341	EASTMAN KODAK COMPANY Rochester New York	3,458 * 3,458
	Bethesda Maryland	174	342	NUCLEAR METALS INC Concord Mass	3,452 * 3,452
	Austin Texas	3,813	343	ADVANCED SYSTEMS INTL Middletown Rhode Island	3,400 * 3,400
311	SUNSTRAND CORPORATION San Diego California	4,211 * 2,168	346	F D A ENGINEERING Costa Mesa California	3,347 * 2,394
	Rockford Illinois	2,053		Santa Ana California	303
				Albuquerque New Mexico	50
313	MAC AVILY BROWN INC Shalimar Florida	4,149 * 363	347	AM GENERAL CORPORATION South Bend Indiana	3,305 * 3,266
	Dayton Ohio	3,318		Livonia Michigan	79
	Fairborn Ohio	456	348	SONALYSTS INC New London Conn	3,303 * 250
314	APPLIED RESEARCH ASSOC INC Lakewood Colorado	4,118 * 140		Waterford Conn	2,932
	Albuquerque New Mexico	3,456		Virginia Beach Virginia	111
	Paleigh N Carolina	472	349	NETWORK SOLUTIONS INC San Bernardino California	3,293 * 2,319
	South Royalton Vermont	68		Alexandria Virginia	974
315	ALPHATECH INC Burlington Mass	4,129 * 4,123			
317	DEFAN DATA SYSTEMS INC Rockville Maryland	4,110 * 4,110			
318	PHYSICAL RESEARCH INC Huntsville Alabama	4,034 * 179			
	Polling Hills California	148			
	Torrance California	3,776			
320	ANALYSIS & COMPUTER SYSTEMS Bedford Mass	4,065 * 4,065			
322	RMS TECHNOLOGIES INCORPORATED Lexington Mass	4,027 * 432			
	Trevose Penn	3,530			

* = Minus Amount / Cancellations Exceed New Awards
S = Small Business

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
350	SYSTRAN CORP Dayton Ohio	S 3,241 * 3,231	376	FIBERTEK INC Herndon Virginia	S 2,850 * 2,850
351	J W P COMMUNICATIONS MFG CO Long Beach California	S 3,280 * 3,280	377	DYNAMAC INTERNATIONAL INC Tyndall AFB Florida Rockville Maryland	2,834 * 57 2,777
352	INDUSTRIAL DATA LINK CORP San Diego California	S 3,264 * 3,264	378	KETRON INC Towson Maryland Malvern Penn Philadelphia Penn Warrington Penn Arlington Virginia	2,814 * 459 1,691 242 372 50
353	PHOTON RESEARCH ASSOCIATES Placentia California San Diego California Cambridge Mass Port Jefferson New York	S 3,248 * 670 2,147 281 150	379	ENGINEERING & PROF SVCS Tinton Falls New Jersey	2,807 * 2,807
354	SCIENCE RESEARCH LABORATORY Somerville Mass	S 3,240 * 3,240	380	TITAN CORPORATION Los Angeles California San Diego California Albuquerque New Mexico Vienna Virginia	2,807 * 439 1,601 246 33 568
357	SEACO INC San Diego California Kailua Hawaii	S 3,191 * 38 3,153	381	ATLANTIC AEROSPACE ELECTRONICS Greenbelt Maryland Waltham Mass Arlington Virginia	2,783 * 753 1,379 51
358	AEL INDUSTRIES INC Langhorne Penn	3,145 * 3,182	383	GIORDANO ASSOCIATES INC Long Branch New Jersey Sparta New Jersey West Long Bran New Jersey	2,757 * 1,630 485 642
361	JOYSEY RESEARCH ASSOCIATES Ithaca New York	S 3,130 * 3,130	384	ITE INC Beltsville Maryland	2,757 * 2,757
363	CELCO INDUSTRIES INC Summit New Jersey	3,093 * 3,093	386	L GARDE INC Newport Beach California Tustin California	2,727 * 300 2,427
364	ALCOA DEFENSE SYSTEMS INC San Diego California	3,052 * 3,052	387	LORAL SYS CO Pasadena California	2,709 * 2,709
365	CTA INCORPORATED Ridgecrest California Englewood Colorado Dayton Ohio	S 3,036 * 2,149 442 445	388	LEADING SYSTEMS, INC Irvine California	2,705 * 2,705
367	TRACOR APPLIED SCIENCES INC San Diego California Britten Conn Rockville Maryland Austin Texas	3,035 * 1,043 59 310 1,623	390	UTD INC Alexandria Virginia Springfield Virginia	2,690 * 1,654 1,036
371	AUTOMETRIC INC Boston Mass Rome New York Dallas Texas San Antonio Texas Alexandria Virginia Falls Church Virginia Vienna Virginia	S 2,411 * 130 442 524 50 871 501 363	392	MATERIALS SCIENCE CORP Spring House Penn	2,589 * 2,589
372	TEKNOWLEDGE INC Thousand Oaks California	S 2,883 * 2,883	393	CAS INC Huntsville Alabama	2,554 * 2,554
377	PHYSICAL SCIENCES INC Arlinger Mass Woburn Mass Alexandria Virginia	S 2,873 * 2,773 50 50	394	CACI INTERNATIONAL INC Washington D.C. San Antonio Texas Arlington Virginia	2,550 * 1,557 150 1,343
374	HUGHES AERL & TEXAS INSTR JV El Segundo California	2,863 * 2,853	395	EDCO ENGINEERING INC Gaithersburg Maryland	2,518 * 2,518
376	SYSTEM DYNAMICS INC Huntsville Alabama Gainesville Florida	S 2,854 * 2,811 39	396	INFORMATION SYSTEMS INTEKS CORP Bethesda Maryland Dayton Ohio	2,516 * 1,194 1,352
			398	RAIL COMPANY Towson Maryland Arlington Virginia Falls Church Virginia	2,503 * 51 51 1,635

Major Award Categories Exceed New Awards
* Small Business

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
447	SCIENTIFIC RESEARCH ASSOC Glastonbury Conn	S 2,161 * 2,161	470	SCIENTIFIC SYSTEMS INC Boston Mass Cambridge Mass	S 1,993 * 1,814 179
448	CORVUS SYSTEMS INCORPORATED Charlottesville Virginia Vienna Virginia	S 2,159 * 254 1,905	472	MICROELECTRONICS Austin Texas	1,974 * 1,974
449	O A O CORPORATION El Segundo California Greenbelt Maryland	2,156 * 1,856 300	473	SYSTEM RESOURCES CORPORATION Woburn Mass Shrewsbury New Jersey	S 1,974 * 1,584 390
451	I-NET INC Rockville Maryland	S 2,124 * 2,124	474	VISIDYNE INC Burlington Mass	S 1,966 * 1,966
454	LOGISTICS MANAGEMENT ENRG China Lake NWC California Annapolis Maryland Warminster Penn	S 2,103 * 588 1,470 45	475	POTOMAC SYSTEMS ENGINEERING Annandale Virginia	S 1,965 * 1,965
455	ARMAMENT SYSTEMS INC Anaheim California Fort Walton Be Florida Aberdeen Maryland	S 2,096 * 1,448 92 556	476	PARSONS RALPH M COMPANY THE Pasadena California	1,963 * 1,963
456	EDO CORPORATION Shelton Conn New York New York	2,094 * 111 1,983	477	NETWORK EQUIPMENT TECHNOLOGIES Redwood City California	1,939 * 1,939
458	ROHM AND HAAS COMPANY Philadelphia Penn	2,075 * 2,075	478	RESEARCH & DEV LABORATORIES Culver City California Los Angeles California San Francisco California	S 1,935 * 1,100 163 672
459	LSI INC Huntsville Alabama	S 2,071 * 2,071	479	ARGOSYSTEMS INC Sunnyvale California	1,919 * 1,919
460	N K F ENGINEERING INC San Diego California Arlington Virginia Reston Virginia	S 2,065 * 431 79 1,555	480	RAVEN INC Springfield Virginia	S 1,909 * 1,909
461	SYSTEMS APPLICATIONS, INC McLean Virginia	2,053 * 2,053	481	ESSEX CORPORATION Fort Rucker Alabama Huntsville Alabama Orlando Florida Warminster Penn Alexandria Virginia	S 1,897 * 100 518 841 95 343
462	COMMAND CONTRL COMMUNICATIONS San Diego California Oceanport New Jersey	2,050 * 1,750 300	482	PACIFICA TECHNOLOGY Del Mar California San Diego California	S 1,896 * 998 898
463	TALLEY DEFENSE SYSTEMS INC Mesa Arizona	2,048 * 2,048	483	H R TEXTRON INC Los Angeles California Valencia California	1,882 * 75 1,807
465	TECHNOLOGY DEVELOPMENT CORP Huntsville Alabama	S 2,030 * 2,030	485	TELECOMMUNICATION SCIENCE ASSOC San Diego California Dallas Texas	S 1,877 * 1,697 180
466	SCI TEC INC Princeton New Jersey Shrewsbury New Jersey Wall New Jersey Wayside New Jersey Dayton Ohio	S 2,005 * 726 535 90 85 569	486	GENTEX CORPORATION Carbondale Penn	1,870 * 1,870
467	REMINGTON ARMS COMPANY INC Ilion New York	2,004 * 2,004	488	T S C INC Santa Monica California New London Conn Fort Lauderdale Florida Silver Spring Maryland Dahlgren Virginia	1,847 * 1,480 100 59 62 146
468	EAGLE-PICHER INDUSTRIES INC El Segundo California Colorado Sprin Colorado Lenexa Kansas Joplin Missouri	2,002 * 890 225 343 544	491	KOLLMORGEN CORPORATION Northampton Mass Roanoke Virginia	1,837 * 1,752 85
469	DURODYNE INC Tucson Arizona	S 1,998 * 1,998	493	NTS ENGINEERING Long Beach California	S 1,832 * 1,832

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Business Firms: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars		Rank	Name of Contractor Location of Work	Thousands of Dollars	
494	MAYFLOWER COMMUNICATION CO Sunnyvale California Wakefield Mass	S	1,826 *				
			50				
			1,776				
496	LASER SCIENCE, INC Cambridge Mass	S	1,816 *				
			1,816				
497	AHNTech INC San Diego California	S	1,814 *				
			1,814				
498	SCIENCE & ENGINEERING ASSOC Denver Colorado Bellevue Nebraska Albuquerque New Mexico Kirtland AFB New Mexico	S	1,795 *				
			51				
			48				
			1,546				
			150				
499	C V D INCORPORATED Woburn Mass		1,794 *				
			1,794				
500	NATIONAL FORGE COMPANY Irvine Penn		1,780 *				
			1,780				
	TOTAL		19,026,713				

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 3. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Educational and Nonprofit Institutions: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
15	MASSACHSITS INST OF TECHNOLOGY Columbia Maryland	403,665 * 50	65	RAND CORPORATION Los Angeles California	44,928 * 19,222
	Cambridge Mass	36,216		Santa Monica California	25,706
	Lexington Mass	367,399	69	GEORGIA INSTITUTE TECHNOLOGY Atlanta Georgia	41,395 * 41,395
16	AEROSPACE CORPORATION El Segundo California	367,000 * 367,000	79	STANFORD UNIVERTSITY Los Angeles California	33,773 * 523
	Baltimore Maryland	5,493		Stanford California	25,753
	Laurel Maryland	348,410		Stanford Unive California	7,497
	Shady Side Maryland	46	87	UNIVERSITY OF SOUTHERN CALIF Los Angeles California	27,819 * 27,303
19	MITRE CORPORATION Bedford Mass	351,616 * 342,187		Marina del Ray California	253
	McLean Virginia	9,429		San Diego California	263
28	DRAPER CHARLES STARK LAB INC Cambridge Mass	139,592 * 139,592	88	ANALYTIC SERVICES INC Arlington Virginia	27,362 * 27,362
47	UNIVERSITY OF CALIFORNIA Berkeley California	66,325 * 12,559	97	BATTELLE MEMORIAL INSTITUTE Birmingham Alabama	24,450 * 96
	Davis California	884		Huntsville Alabama	144
	Fullerton California	40		Tucson Arizona	56
	Irvine California	3,508		Azusa California	42
	Livermore California	100		Berkeley California	129
	Long Beach California	1,699		Huntington Bea California	27
	Los Angeles California	7,911		Los Angeles California	40
	Oakland California	73		Placentia California	35
	Placentia California	7,425		Santa Monica California	136
	Riverside California	261		Solana Beach California	27
	San Diego California	19,143		Stanford California	28
	San Francisco California	1,453		Fort Collins Colorado	35
	Santa Barbara California	9,982		Milford Conn	39
	Santa Cruz California	1,123		Orange Conn	70
	Torrance California	164		Simsbury Conn	48
				Washington D.C.	41
49	SRI INTERNATIONAL Menlo Park California	59,125 * 59,125		Melbourne Florida	74
52	I I T RESEARCH INSTITUTE Colorado Sprin Colorado	55,557 * 50		Orlando Florida	26
	Chicago Illinois	50,157		Satellite Beac Florida	102
	Chicago O'Hare Illinois	50		Tallahassee Florida	40
	Lanham Maryland	1,407		Tampa Florida	31
	Bellevue Nebraska	95		Atlanta Georgia	102
	Rochester New York	370		Columbus Georgia	28
	Rome New York	370		Champaign Illinois	145
	Bartlesville Oklahoma	56		Chicago Illinois	74
	Philadelphia Penn	627		Urtana Illinois	102
	Oak Ridge Tennessee	2,046		West Lafayette Indiana	28
	GERMANY, F	329		Leawood Kansas	45
				Orono Maine	38
58	CARNEGIE-MELLON UNIVERSITY Pittsburgh Penn	50,014 * 50,014		Aberdeen Prov Maryland	3,630
63	PENNSYLVANIA STATE UNIV THE Penn State Col Penn	46,816 * 200		Baltimore Maryland	70
	State College Penn	46,616		Elkton Maryland	87
64	UNIVERSITY OF TEXAS SYSTEM Alienfarm Texas	46,008 * 50		Rockville Maryland	30
	Arlington Texas	739		Anherst Mass	28
	Austin Texas	41,602		Cambridge Mass	154
	Dallas Texas	300		Chelmsford Mass	60
	El Paso Texas	94		Reading Mass	75
	Galveston Texas	1,061		Wakefield Mass	28
	Houston Texas	146		Wilmington Mass	40
	Richardson Texas	1,751		Ann Arbor Michigan	103
	San Antonio Texas	265		Minneapolis Minnesota	32
				St. Paul Minnesota	67
				St. Louis Missouri	111
				Chatham New Jersey	50
				Flygham Park New Jersey	45
				Princeton New Jersey	107
				Shrewsbury New Jersey	40
				West Caldwell New Jersey	35
				Espanola New Mexico	27
				Las Cruces New Mexico	66
				Albany New York	28
				New York New York	28
				Syracuse New York	78
				Troy New York	76

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 3. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Educational and Nonprofit Institutions: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
	BATTELLE MEMORIAL INSTITUTE			UNIVERSITY OF MARYLAND	13,292 *
	Raleigh N Carolina	35		Denver Colorado	88
	Columbus Ohio	16,276		Washington D.C.	183
	Kettering Ohio	36		Baltimore Maryland	2,251
	Worthington Ohio	37		Cambridge Maryland	27
	Bethlehem Penn	35		College Park Maryland	10,426
	Madison Penn	48		Falls Church Virginia	40
	Philadelphia Penn	31		CHILE	277
	Columbia S Carolina	30			
	Austin Texas	30	142	LOGISTICS MANAGEMENT INST	12,297 *
	College Station Texas	51		Bethesda Maryland	12,297
	Dallas Texas	31	145	MASSACHUSETTS UNIVERSITY OF	10,389 *
	El Paso Texas	32		Amherst Mass	9,346
	Salt Lake City Utah	26		Amherst Center Mass	300
	Charlottesville Virginia	61		Worcester Mass	704
	Fairfax Virginia	130		Cincinnati Ohio	39
	Herndon Virginia	26	164	COLUMBIA UNIVERSITY	9,958 *
	Manassas Virginia	28		New York New York	9,918
	Norfolk Virginia	36		Palisades New York	40
	Reston Virginia	28	167	SOUTHWEST RESEARCH INSTITUTE	9,604 *
	Springfield Virginia	76		China Lake NWC California	62
	Vienna Virginia	118		San Antonio Texas	9,359
	Virginia Beach Virginia	37		San Antonio Ai Texas	183
	Richland Washington	289	172	UNIVERSITY OF MICHIGAN	9,241 *
98	RIVERSIDE RESEARCH INSTITUTE	24,434 *		Washington D.C.	44
	Bedford Mass	1,262		Ann Arbor Michigan	8,607
	New York New York	22,764		Dearborn Michigan	450
	Arlington Virginia	408		Lansing Michigan	140
101	HUDSON INSTITUTE INC	23,655 *	176	CALIFORNIA INST OF TECHNOLOGY	9,204 *
	Indianapolis Indiana	19,670		Huntington Bea California	81
	Alexandria Virginia	3,985		Pasadena California	9,123
108	UNIVERSITY OF WASHINGTON	20,837 *	177	PURDUE UNIVERSITY	8,877 *
	Seattle Washington	20,837		Lafayette Indiana	1,145
109	UNIVERSITY OF ILLINOIS	20,697 *		Purdue Univers Indiana	464
	Normal Alabama	100		West Lafayette Indiana	7,268
	Caldwells Illinois	45	182	GEORGE WASHINGTON UNIV THE	8,344 *
	Champaign Illinois	7,716		Washington D.C.	8,344
	Chicago Illinois	4,970	193	ITT RESEARCH INSTITUTE	8,212 *
	Urbana Illinois	7,866		Chicago Illinois	8,212
110	INSTITUTE FOR DEF ANALYSES	20,657 *	197	RESEARCH TRIANGLE INSTITUTE	7,963 *
	Alexandria Virginia	20,657		Melbourne Florida	758
117	UNIVERSITY OF DAYTON INC	19,423 *		Raleigh N Carolina	255
	Williams AFB Arizona	2,444		Research Trian N Carolina	6,950
	Edwards AFB California	1,510	198	NEW MEXICO STATE UNIVERSITY	7,692 *
	College Ohio	95		Las Cruces New Mexico	1,987
	Dayton Ohio	12,411		White Sands Ms New Mexico	5,705
	Montgomery Ohio	249	204	OREGON STATE UNIVERSITY	7,637 *
	Wright Patters Ohio	2,714		Corvallis Oregon	7,637
122	UTAH STATE UNIVERSITY	17,532 *	207	SYRACUSE UNIVERSITY	7,513 *
	Logan Utah	17,231		Syracuse New York	7,513
	Magna Utah	301	209	UNIVERSITY OF WISCONSIN SYSTEM	7,480 *
127	SOUTH CAROLINA RES AUTHORITY	16,161 *		Kenosha Wisconsin	114
	Charleston S Carolina	16,161		Madison Wisconsin	7,069
136	CORNELL UNIVERSITY	14,004 *		Milwaukee Wisconsin	297
	Ithaca New York	13,256	219	SOUTHERN RESEARCH INSTITUTE	6,957 *
	New York New York	582		Birmingham Alabama	6,957
	White Plains New York	166			
139	WOODS HOLE OCEANOGRAPHIC INSTN	13,423 *			
	Woods Hole Mass	13,423			

- = Minus Amount (Cancellations Exceed New Awards)

S = Small Business

**Table 3. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Educational and Nonprofit Institutions: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
223	YALE UNIVERSITY New Haven Conn	6,858 *	274	NATIONAL ACADEMY SCIENCES USA San Diego California Washington D.C.	5,279 * 70 5,209
226	RENSSELAER POLYTECHNIC INST Chili Junction New York Troy New York	6,690 * 50 6,640	281	UNIVERSITY OF CENTRAL FLORIDA Orlando Florida	4,999 * 4,999
229	ENVIRON RSCH INST OF MICHIGAN Ann Arbor Michigan	6,601 * 6,601	286	VIRGINIA POLYTECHNICAL INST Blacksburg Virginia	4,842 * 4,842
231	BROWN UNIVERSITY Providence Rhode Isld	6,470 * 6,470	303	MERCER UNIVERSITY Macon Georgia Robins AFB Georgia	4,500 * 3,117 1,383
232	UNIVERSITY OF ROCHESTER Rochester New York	6,405 * 6,405	305	COLORADO STATE UNIVERSITY Fort Collins Colorado	4,444 * 4,444
233	UNIVERSITY OF PENNSYLVANIA New Canaan Conn Philadelphia Penn	6,402 * 49 6,353	309	UNIVERSITY OF MINNESOTA Duluth Minnesota Minneapolis Minnesota St. Paul Minnesota	4,325 * 379 821 3,125
237	SALK INST FOR BIOCICAL STUDIES San Diego California Swiftwater Penn	6,254 * 557 5,697	310	AUBURN UNIVERSITY Auburn Alabama	4,318 * 4,318
240	TEXAS A & M UNIVERSITY Arlington Texas College Statio Texas San Antonio Texas	6,075 * 900 5,050 125	312	VANDERBILT UNIVERSITY THE Nashville Tennessee	4,176 * 4,176
244	PRINCETON UNIVERSITY Bayview Shores New Jersey Princeton New Jersey	5,948 * 30 5,918	321	UNIVERSITY OF FLORIDA Gainesville Florida Orlando Florida	4,059 * 4,021 33
245	UNIVERSITY OF NEW MEXICO Albuquerque New Mexico Kirtland AFB New Mexico Las Cruces New Mexico	5,923 * 1,867 3,946 110	327	UNIV CORP FOR ATMOSPHERIC RSC National Space Miss	3,859 * 3,859
246	HARVARD UNIVERSITY Cambridge Mass	5,919 * 5,919	328	OHIO STATE UNIVERSITY Atlanta Georgia Columbus Ohio Urbancrest Ohio	3,786 * 118 3,524 144
249	UNIVERSITY OF ALABAMA Birmingham Alabama Huntsville Alabama Tuscaloosa Alabama Tuskegee Alabama	5,858 * 830 4,491 445 92	331	SOUTHEAST CTR ELECTR ENG ED Casa Bianco Florida Saint Cloud Florida Bedford Mass Buffalo New York	3,770 * 212 2,488 350 720
250	UNIVERSITY OF UTAH Salt Lake City Utah	5,852 * 5,852	334	NEW YORK UNIVERSITY Beacon New York New York New York	3,676 * 973 2,703
251	NORTH CAROLINA STATE UNIV Jubilee N Carolina Raleigh N Carolina	5,851 * 45 5,806	338	UNIVERSITY OF COLORADO Boulder Colorado Colorado Sprin Colorado Denver Colorado	3,508 * 2,894 146 468
256	UNIVERSITY OF ARIZONA Tempe Arizona Tucson Arizona	5,697 * 177 5,520	344	UNIVERSITY OF NORTH CAROLINA Chapel Hill N Carolina Charlotte N Carolina	3,379 * 3,297 82
264	BOSTON UNIVERSITY TRUSTEES OF Boston Mass	5,541 * 5,541	356	POLYTECHNIC UNIV OF NEW YORK Farmingdale New York New York New York	3,197 * 1,005 2,192
266	STATE UNIVERSITY OF NEW YORK Albany New York Binghamton New York Brookhaven New York Buffalo New York Old Westbury New York Stony Brook New York Syracuse New York Syracuse New York	5,524 * 2,283 92 100 1,929 140 537 120 323	360	UNIVERSITY OF RHODE ISLAND Kingston Rhode Isld Narragansett Rhode Isld Providence Rhode Isld	3,145 * 1,454 195 1,496
			362	UNIVERSITY OF VIRGINIA Pittsburgh Penn Charlottesville Virginia	3,129 * 52 3,077

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 3. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Educational and Nonprofit Institutions: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
366	CASE WESTERN RESERVE UNIV Cleveland Ohio Wright Patters Ohio	3,035 * 2,763 272	484	CATHOLIC UNIVERSITY OF AMERICA Washington D.C.	1,881 * 1,881
368	NORTHWESTERN UNIVERSITY Evanston Illinois	3,007 * 3,007	487	SOUTHERN METHODIST UNIVERSITY Allenfarm Texas Dallas Texas	1,861 * 134 1,727
369	CLEMSON UNIVERSITY Clemson Univer S Carolina	3,001 * 3,001	489	AMERICAN SOC FOR ENGRG EDUCTN Washington D.C.	1,842 * 1,842
370	DUKE UNIVERSITY Apex N Carolina Beaufort N Carolina Duke Universit N Carolina Durham N Carolina	2,951 * 320 282 60 2,289	492	LOUISIANA STATE UNIVERSITY Baton Rouge Louisiana New Orleans Louisiana	1,837 * 773 1,064
382	UNIVERSITY OF TENNESSEE Knoxville Tennessee Memphis Tennessee Tullahoma Tennessee	2,760 * 1,881 140 739	495	RICE WILLIAM MARSH UNIVERSITY Houston Texas	1,820 * 1,820
389	STATE OF OKLAHOMA Eglin Air Forc Florida Battiest Oklahoma Stillwater Oklahoma	2,696 * 1,983 85 628		TOTAL	2,709,630
391	UNIVERSITY OF IOWA THE Iowa City Iowa	2,649 * 2,649			
401	UNIVERSITY OF CONNECTICUT Farmington Conn Storrs Conn	2,498 * 112 2,386			
408	ARIZONA STATE UNIVERSITY Tempe Arizona	2,447 * 2,447			
422	SYRACUSE RESEARCH CORP Syracuse New York	2,337 * 2,337			
424	UNIVERSITY OF PITTSBURGH Banian Junctio Penn Pittsburgh Penn	2,323 * 177 2,146			
430	RUTGERS THE STATE UNIVERSITY Barkers Corner New Jersey New Brunswick New Jersey Piscataway New Jersey	2,265 * 75 871 1,319			
434	UNIVERSITY OF CHICAGO THE Chicago Illinois	2,239 * 2,239			
436	DARTMOUTH COLLEGE Hanover N.H.	2,226 * 2,226			
439	NATIVE AMERICAN SERVICE ASSN Huntsville Alabama	2,205 * 2,205			
441	MICHIGAN DEPT OF PUBLIC HEALTH Lansing Michigan	2,196 * 2,196			
450	UNIVERSITY OF DELAWARE Newark Delaware	2,140 * 2,140			
452	NORTHEASTERN UNIVERSITY CORP Boston Mass	2,122 * 2,122			
453	GENERAL HOSPITAL CORPORATION Boston Mass	2,112 * 2,112			
464	UNIVERSITY OF HAWAII Honolulu Hawaii	2,044 * 2,044			

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 4. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to Foreign Contractors: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
89	MESSERSCHMITT-BOELKOW BLOHM GERMANY, F	27,197 *			
		27,197			
126	ISRAEL AIRCRAFT IND'S INT'L ISRAEL	16,480 *			
		16,480			
132	ROYAL NORWEGIAN NAVAL MATERIAL NORWAY	15,621 *			
		15,621			
150	CANADIAN COMMERCIAL CORPORATN CANADA	11,446 *			
		11,446			
159	MINISTRY OF DEFENSE UK UNITED KINGDOM	10,680 *			
		10,680			
212	MARTIN-BAKER AIRCRAFT CO LTD UNITED KINGDOM	7,360 *			
		7,360			
261	ANDREW ANTENNA GOVERNMENT PRO AUSTRALIA AUSTRIA	5,594 *			
		5,062			
		532			
279	ISREALI MINISTRY OF DEFENSE ISRAEL	5,000 *			
		5,000			
297	BOFORS A B SWEDEN	4,588 *			
		4,588			
306	ISRAEL AC IND ISRAEL	4,400 *			
		4,400			
316	COSYDE GIE FRANCE	4,123 *			
		4,123			
319	SNIA BPD ITALY	4,094 *			
		4,094			
345	UNITED KINGDOM MINISTRY OF DEF UNITED KINGDOM	3,350 *			
		3,350			
385	UNITED KINGDOM AUTOMIC UNITED KINGDOM	2,737 *			
		2,737			
397	HECKLER & KOCH INC GERMANY, F	2,514 *			
		2,514			
471	CANADIAN MARCONI COMPANY CANADA	1,987 *			
		1,987			
490	CONTRAVES ITALIANA SPA ITALY	1,842 *			
		1,842			
	TOTAL	129,013			

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business

**Table 5. Net Value of DOD Prime Contract Awards Over \$25,000
for RDT&E to U.S. Government Agencies: FY 1988**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
224	U S DEPARTMENT OF COMMERCE Boulder Colorado	6,837 *			
	Washington D.C.	1,125			
	Gaithersburg Maryland	2,980			
	Rockville Maryland	1,688			
	Bay St. Louis Miss	523			
	Seattle Washington	145			
		376			
355	UNITED STATES DEPT ENERGY Berkeley California	3,215 *			
	Oakland California	50			
	San Francisco California	411			
	Washington D.C.	50			
	Idaho Falls Idaho	50			
	Argonne Illinois	170			
	Syracuse New York	411			
	Upton New York	50			
	Oak Ridge Tennessee	161			
	Redmond Washington	200			
	Richland Washington	590			
		1,072			
457	NATIONAL SCIENCE FOUNDATION Washington D.C.	2,090 *			
		2,090			
	TOTAL	12,142			

- = Minus Amount (Cancellations Exceed New Awards)
S = Small Business